

CHECK SHEET

Date: 10/15/2012 API Number: 111-21271
Company: Vecta Oil & Gas, Ltd.
Well Name: #1 Heberle 33-28
County: Yellowstone
Field: Wildcat Yellowstone, N
Surf. Location: 1667 FSL 2045 FEL NW SE Lot: Sec: 28 Twp: 7 N Rng: 32 E

Permit Number: 30374 Drilling Fee:

Intention to Drill: 10/12/2012 Expiration Date: 4/12/2013

Mineral Ownership: Private State Federal Indian

Well Type: Vertical Multiple Laterals

Proposed Depth/Formation: MD: ⁶¹⁵⁰~~5990~~ TVD: Amsden

Drilling Unit Acres Description:

Samples Required: Received:

COMPLETION INFORMATION

Completion Date: 1-12-13 TD: 6140 PBTD: 6053

Completed As: Oil IP / Formation: 3080 / 0 mcf / 92 BW (8 hrs) Amsden

Geological Well Report: None Mud Log: 12-20-12

Sundry Notices: Chg TD 12-17-12

Subsequent Report of Abandonment: Received: Approved:

Electric Logs: Mostie Natural Gamma Sonde / Drlg. Eng. Quicklook - GR - Caliper / Plat. Exp Array Ind - GR / Plat. Exp CN Three Detector Density 12-20-12

Miscellaneous: DST #1 12-20-12

PLAINTIFFS' EXHIBIT
P273

RECEIVED ARM 36.22.302
ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013
ARM 36.22.1414
JAN 31 2013

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

COMPLETION REPORT

API # 25 - 111 - 21271

Company Vecta Oil & Gas, Ltd Lease #1 Heberle Well No. 33-28

Address 575 Union Blvd., Ste 208 Field or Area Wildcat (Wolf Springs)
Lakewood, CO 80228

Surface Location: 1667 ft. from S Line, 2045 ft. from E Line, Sec. 28 T 7N R 32E
(N/S) (E/W)

County Yellowstone Elevation 3306' 3317'
(Surface) (KB)

Date Spud 11/16/2012 Date Completed 1/12/2013 Completed as Oil
(Oil, gas, cbm, injection, dry hole, etc.)

The information given herewith is a complete and correct record of the well as of the date of preparation.

Signed H. RICHARD PATE [Signature]

Title VP - Engineering Date 24-Jan-13

Telephone 303-550-4880 (cel)

For Vertical Well: Total depth 6140 ft. Plugged back to 6053 ft.

For Horizontal or Directionally Drilled Well: Enter well bore and bottom hole location data on page 2 of this form.

For coal bed natural gas well: Static water level _____ ft. below reference elevation of _____ ft.

Casing and Tubing Record

Well Bore	String				Length (Feet)	From (MD, Feet)	To (MD, Feet)	Cement (Sacks)	Cement Top (MD, Feet)	Packer Set (MD, Feet)
	Type	Size	Weight	Grade						
12-1/4 "	casing	8-5/8"	24#	J-55	614	0	614	235	surface	
7-7/8"	casing	5-1/2"	17#	K-55	6122	0	6122	560	4370	
5-1/2"	tubing	2-7/8"	4.7#	J-55	6026	0	6026			

Perforated or Open-hole Intervals

Well Bore	Open Hole/Perf'd Zone		Holes per foot	Size and Type	Open or Isolated (method of isolation)
	Top	Bottom			
5-1/2 "	5995'	6016'	2	39 gram, 0.58" EHD, 180 Ph	Open

Acidized, Shot, Fraced, Squeezed, or Cemented

Well Bore	Interval		Treatment Type	Amount and Type of Material	Max. Rate (BBLS/Min)	Max. Pressure (PSI)
	Top	Bottom				
5-1/2"	5995'	6016'	Acidize	1000 gals 15% HCl	1	2100

Well is producing from Amsden formation(s) or pool(s).

I.P. 30 barrels of oil, 0 MCF of gas, and 92 barrels of water per 8-(swab) hours.

Good home rd 276 BWD

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Initial 10-day average production _____ n.a. _____ /day (if taken)
 Pressures (if measured): Tubing _____ 0 _____ psi flowing: _____ 0 _____ psi shut-in
 Casing _____ 0 _____ psi flowing: _____ 0 _____ psi shut-in
 Formation Volume Factor _____ n.a. _____ Porosity _____ n.a. _____ % Water Saturation _____ n.a. _____ %
 Type Of Trap _____ Structural - Stratigraphic _____ Producing Mechanism _____ Water Drive

Bottom Hole Locations

Well Bore	MD	Kick-off From (Well bore)	Total Depth		Location, T-R-S					From N/S Line		From E/W Line	
			MD	TVD	Twp	N/S	Rng	E/W	Sec.	Feet	N / S	Feet	E / W

Drill Stem Tests

DST #	Interval		Tool Open (Min.)	Shut-in (Min.)	F.P.	S.I.P.	Recovery	Cushion
	From	To						
1	5910	5980	60	180	765	1470	257' mud	none

Cores

Core #	Interval		Recovery
	From	To	
none			

Logs

Log Type	Interval	
	From	To
SOS: AIT/LDT/CNL/MLL/Sonic	TD	614
SOS: HNGS	TD	4800

Geological Markers

Formation	Top		Formation	Top	
	MD	TVD		MD	TVD
Judith River	2,018	2,018			
Clagett	2,300	2,300			
Eagle	2,560	2,560			
Colorado Shale	3,302	3,302			
Muddy	4,806	4,806			
Dakota	4,894	4,894			
1st Cat Creek	5,014	5,014			
3rd Cat Creek	5,266	5,266			
Morrison	5,337	5,337			
Swift	5,494	5,494			
Rierdon	5,681	5,681			
Pipper	5,932	5,932			
Amsden	5,972	5,972			

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MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS

FORM NO. 22 R 10/09 SUBMIT IN QUADRUPPLICATE TO: ARM 36.22.307
ARM 36.22.601

MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE, BILLINGS, MONTANA 59102

Lease Name: #1 Heberle

Lease Type (Private/State/Federal): Private

Application for Permit To:

Drill Deepen Re-enter
Oil Gas Other

Well Number: 33-28

Operator: Vecta Oil and Gas, Ltd
Address: 575 Union Blvd, Suite 208
City: Lakewood State: CO Zip: 80228
Telephone Number: 303-945-2850

Field Name or Wildcat: (Wolf Springs Area) Wildcat

Unit Name (if applicable): N/A

Surface Location of Well (quarter-quarter and footage measurements):
NWSE Sec. 28 T7N R32E 1667' FSL 2045' FEL

Objective Formation(s): Amsden

Proposed Total Depth and Bottom-hole Location(s) if directional or horizontal well:
5990'
6150'

Township, Range, and Section: Sec. 28-T7N-R32E

County: Yellowstone Co., MT

Elevation (indicate GL or KB): 3306' GL

Size and description of drilling/spacing unit and applicable order, if any:	Formation at total depth:	Anticipated Spud Date:
NW 1/4 of SE 1/4 40 acres	Amsden	11/1/2012

Hole Size	Casing Size	Weight / Foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
12 1/4	8 5/8	24	J-55	600	235	C
7 7/8	5 1/2	17	K-55	5990	555	C & G

Describe Proposed Operations:
Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.
See attachments for details

BOARD USE ONLY	
Approved (date) <u>OCT 12 2012</u>	Permit Fee <u>\$7500</u>
By <u>[Signature]</u>	Check Number <u>7324 (Western Consulting)</u>
Title <u>CHIEF FIELD INSPECTOR</u>	Permit Expires <u>APR 12 2013</u>
	Permit Number <u>30374</u>
THIS PERMIT IS SUBJECT TO THE CONDITIONS OF APPROVAL STATED ON THE BACK	API Number: 25 - <u>111</u> - <u>21271</u>
The undersigned hereby certifies that the information contained on this application is true and correct:	
Signed (Agent) <u>[Signature]</u>	
Title <u>Agent</u>	
Date <u>10/4/2012</u>	
Telephone Number <u>406-259-4878</u>	

Samples Required: NONE ALL _____ FROM _____ feet to _____ feet

Core chips to address below, full cores to USGS, Core Laboratory, Arvada, CO. Required samples must be washed, dried and delivered prepaid to:
Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

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SUPPLEMENTAL INFORMATION

MONTANA BOARD OF OIL & GAS REGULATION • BILLINGS

Note: Additional information or attachments may be required by Rule or by special request.

- 1. Attach a survey plat certified by a registered surveyor. The survey plat must show the location of the well with reference to the nearest lines of an established public survey.
- 2. Attach an 8 1/2 x 11" photocopy of that portion of a topographic map showing the well location, the access route from county or other established roads, residences, and water wells within a 1/2 mile radius of the well.
- 3. Attach a sketch of the well site showing the dimensions and orientation of the site, the size and location of pits, topsoil stockpile, and the estimated cut/fill at the corners and centerstake. (Note: the diagram need not be done by an engineer or surveyor). Attach a sketch of a top view and two side views of the reserve pit(s), if utilized. The reserve pit sketch must show the length, width, depth, cut and fill, amount of freeboard, area of topsoil stockpile, and the height and width of berms.
- 4. Describe the type and amount of material or liner, if any, to be used to seal the reserve pit. If a synthetic liner is used, indicate the liner thickness (mils), bursting strength, tensile strength, tear strength, puncture resistance, hydrostatic resistance, or attach the manufacturer's specifications.
- 5. Describe the proposed plan for the treatment and/or the disposal of reserve pit fluids and solids after the well is drilled. If the operator intends to dispose of or treat the reserve pit contents off-site, specify the location and the method of waste treatment and disposal. (Note: The operator must comply with all applicable federal, state, county, and local laws and regulations with regard to the handling, transportation, treatment, and disposal of solid wastes.)
- 6. Does construction of the access road or location, or some other aspect of the drilling operation require additional federal, state, or local permits or authorizations? If yes, indicate the type of permit or authorization required:

- No additional permits needed
- Stream crossing permit (apply through county conservation district)
- Air quality permit (apply through Montana Department of Environmental Quality)
- Water discharge permit (apply through Montana Department of Environmental Quality)
- Water use permit (apply through Montana Department of Natural Resources and Conservation)
- Solid waste disposal permit (apply through Montana Department of Environmental Quality)
- State lands drilling authorization (apply through Montana Department of Natural Resources and Conservation)
- Federal drilling permit (specify agency)
- Other federal, state, county, or local permit or authorization: (specify type) _____

NOTICES:

- 1. Date and time of spudding must be reported to the Board verbally or in writing within 72 hours after the commencement of drilling operations.
- 2. The operator must give notice of drilling operations to the surface owner as required by Section 82-10-503, MCA, before the commencement of any surface activity.

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

WARNING: Failure to comply with conditions of approval may void this permit.

MONTANA BOARD OF OIL AND GAS ATTACHMENT TO APD "CONDITIONS OF APPROVAL"

**VECTA Oil and Gas
#1 Heberie 33-28
NW SE Section 28 T7N R32E
Yellowstone County, MT**

A. 36.22.1005 DRILLING WASTE DISPOSAL AND SURFACE RESTORATION

(1) The operator of a drilling well must contain and dispose of all solid waste and produced fluids that accumulate during drilling operations so as not to degrade surface water, groundwater, or cause harm to soils. Said waste and fluids must be disposed of in accordance with all applicable local, state and federal laws and regulations.

(2) When a salt-based or oil-based drilling fluid is used to drill a well located within a floodplain, as defined by ARM 36.15.101, or in irrigated cropland, drilling waste and produced fluids that accumulate during drilling operations must be disposed of off-site in a manner allowed by local, state, and federal laws and regulations unless an alternative on-site disposal method is approved in writing by the board administrator.

(3) The operator of a drilling well must construct, close, and restore any reserve pits in a manner that will prevent harm to the soil and will not degrade surface waters or groundwater. When a salt-based or oil-based drilling fluid is used, the reserve pit must be lined with a synthetic liner approved by the board administrator.

(4) Within 10 days after the cessation of drilling or completion operations, all hydrocarbons must be removed from earthen pits used in association with drilling or completion operations or such pits must be fenced, screened, and netted. Such pits that contain water with more than 15,000 parts per million total dissolved solids or salt-based drilling fluids must be fenced within 90 days after the cessation of drilling and completion operations.

(5) Earthen pits used in association with drilling and completion operations must not be used for the disposal of any additional fluids or materials after the cessation of drilling and completion operations.

(6) All earthen pits used in association with drilling and completion operations must be closed and the surface restored according to board specifications within one year after the cessation of drilling operations. Upon written application by the operator, an exception to the one-year pit closure requirement may be granted in writing by the board administrator upon a showing that:

(a) no dumping or disposal of waste or fluids in the pit will occur; and

(b) delayed closure of the pit will not present a risk of contamination to soils or water or a hazard to animals or persons.

History: Sec. 82-11-111, MCA; IMP, Sec. 82-11-123 and Sec. 82-11-124, MCA; Eff. 12/31/72; AMD, Eff. 7/5/75; AMD, 1992 MAR p. 654, Eff. 4/1/92

**Field Inspector for the area is Mr. Jerry Fraser. Contact number 406-698-4832
Cell # or 406-323-2127 Home**

Vecta Oil and Gas

#1 Heberle 33-28

NW SE Sec. 28-T7N-R32E

Yellowstone Co., Montana

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Pit Liner and Re-Hab Program

A 16 mil synthetic pit liner will be installed (see attached spec sheet). After drilling is completed, and if the well is completed as a producer, the liquid fluids will be hauled to a commercial disposal site and disposed. The location will be downsized to accommodate production equipment. The rest of the disturbed area will be returned to original contours, re-sloped and re-seeded. The pit will be allowed to dry and reclaimed with the liner being left intact.

If the well is a dry hole, the liquids will be hauled to a commercial disposal and disposed. The pit will be allowed to dry. The pit will be reclaimed leaving the pit liner intact. All disturbed areas will be re-sloped and re-contoured to original condition. The top soil will be spread and the location will be re-seeded with a seed mixture agreed upon by the surface owner.

DRILLING PROGRAM FOR #1 HEBERLE 33-28

Location:

1667' FSL 2045' FEL

Sec. 28-T7N-R32E

Yellowstone Co., MT

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1. Build location to Capstar 314 specifications.
2. MIRU Drilling Rig.
3. Drill 12 1/4" surface hole from 60' to 600'±.
4. Run and cement 8 5/8", 24#, J-55, LT&C surface casing.
5. Screw on 11" 3000 psi Larkin casing head. Nipple up BOP stack.

Pressure test stack to 3000 psi. Test casing to 1500 psi.

6. Drill out with 7 7/8" PDC bit. Drill hole to core point 5890'±.
7. Core Amsden formation, perform DST test.
8. Trip out and lay down test tool.
9. Trip in. Drill to TD of 5990'±.
10. TOH for logs. Run CNL/FDC/Sonic/GR/Cal logs.
11. TIH. Circulate for casing.
12. Lay down drill string.
13. Run and cement casing.
14. Rig down and move off drilling equipment.

Vecta Oil and Gas
#1 Heberle 33-28
NW SE Sec 28-T7N-R32E
Yellowstone Co., MT

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CEMENTING PROGRAM

SURFACE CASING: 12 1/4" OH, 8 5/8" 24# J-55 LTC

Tail Cement: Control Set "C" + 0.25#/sk Polyflake
600' to surface 235 sacks

PRODUCTION CASING: 7 7/8" OH, 5 1/2" 17# K-55

Lead Cement: WBL-II with 0.40% CDF-4-P +0.25 #/sx PolyFlake
5000' to 2500'
325 sx plus 20 sx Scavenger

Tail Cement: 1:1:0 G with 0.3% CFR, 0.6% CFL-4, 10% NaCl, 0.4% CDF-4-P,
0.25 #/sx PolyFlake
5990' to 5000'
230 sx

Well Prognosis

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#1 Heberle 33-28

1667' FSL, 2045' FEL

28-7N-32E, Yellowstone County, Montana

Ground Level: 3306'

Projected Formation Tops From GL:

<u>Formation</u>	<u>Top (MD)</u>	<u>Top (Subsea)</u>
Judith River	1948	1358
Claggett	2222	1084
Eagle	2555	751
Colorado		
Shale	3244	62
Muddy	4746	-1440
Dakota	4837	-1531
1st Cat Creek	4955	-1649
3rd Cat Creek	5216	-1910
Morrison	5271	-1965
Swift	5461	-2155
Rierdon	5625	-2319
Piper	5875	-2569
Amsden	5828	-2522
TD	5990	-2684

Vecta Oil and Gas
#1 Heberle 33-28
 NW SE Sec. 28-T7N-R32E
 Yellowstone Co., MT

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MUD PROGRAM

Recommended Drilling Fluids Properties									
Surface									
Depth	Mud Type	Fluid Density	Funnel Viscosity	API Filtrate	pH	Plastic Vis	Yield Point	MBT	Low Gravity Solids
(ft)		(ppg)	(sec/qt)	(ml)		(cP)	(lbs/100ft ²)	ppb	(% by Vol)
0' - 600'	Fresh Water /Spud Mud	8.4	29	NC	8.5	4	2	<17.5	<10
		-	-		-	-			
		8.6	56		9.5	8	6		
Surface casing: 9 5/8" casing set around 600' TMD									
Production									
Depth	Mud Type	Fluid Density	Funnel Viscosity	API Filtrate	pH	Plastic Vis	Yield Point	MBT	Low Gravity Solids
(ft)		(ppg)	(sec/qt)	(ml)		(cP)	(lbs/100ft ²)	ppb	(% by Vol)
600 - +/- 5,990'	NOV Plex	8.9 - 9.2	36 - 56	6 - 10	8.5 - 10.0	10 - 18	6 - 12	<17.5	<10
Production casing: 5 1/2" set around 5,990'									

OCT 10 2012

WELL LOCATION PLAT

Vecta Oil & Gas Ltd.
575 Union Blvd., Suite 208, Lakewood, Colorado 80228
#1 Heberle 33-28

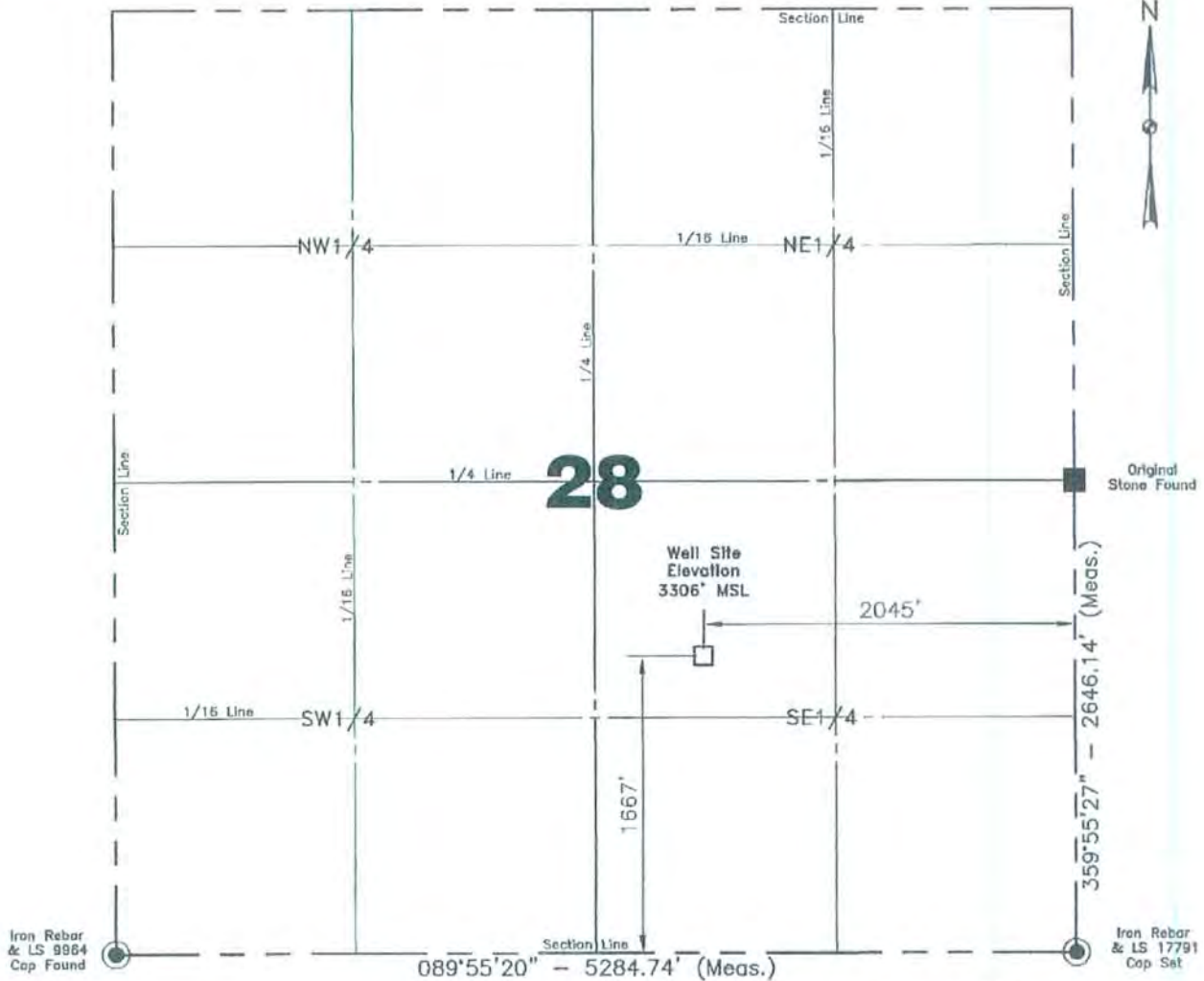
1667 feet from the south line and 2045 feet from the east line (surface location)

Section 28, T.7N., R.32E., P.M.M.
Yellowstone County, Montana

Surface owner @ well site - Rebecca W. Heberle, Trustee

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NAD 83 Latitude 46°19'37.424" North; Longitude 107°43'30.089" West (surface location)
NAD 27 Latitude 46°19'37.484" North; Longitude 107°43'27.764" West (surface location)
[Derived from OPUS Solution NAD-83(2011) Converted to NAD27]



Scale 1"=1000'

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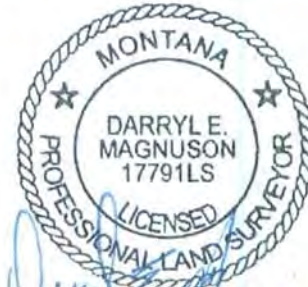
Note:
All land corners are assumed unless otherwise noted. The well location shown hereon is not an as-built location.

I, Darryl Magnuson, Professional Land Surveyor, MT. No. LS 17791, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief.

Steven Wood 8/9/2012
Surveyed By Date

Vertical Control Datum Used
North American Vertical Datum 1988 (NAVD 88)
Based on elevation derived from OPUS Solution on GPS*KLJ 1 (iron rebar) Located a distance of 15539' on an azimuth of 071°15'29" from the SE corner of Section 28 T.7N., R.32E., P.M.M. being at 3464.49' Elevation MSL.

Professional Consulting Engineers and Surveyors
Registered in
North Dakota, South Dakota
Montana, Wyoming & Minnesota
Tele-Fax No. 406-294-5502
Bus. Phone No. 406-245-5499
2611 Gabel Road
Billings, Montana 59108-0303
Certificate of Authorization #37 EF



Darryl E. Magnuson
17791 P.L.S.

Kadmas
Lee &
Jackson
Engineers Surveyors
Planners

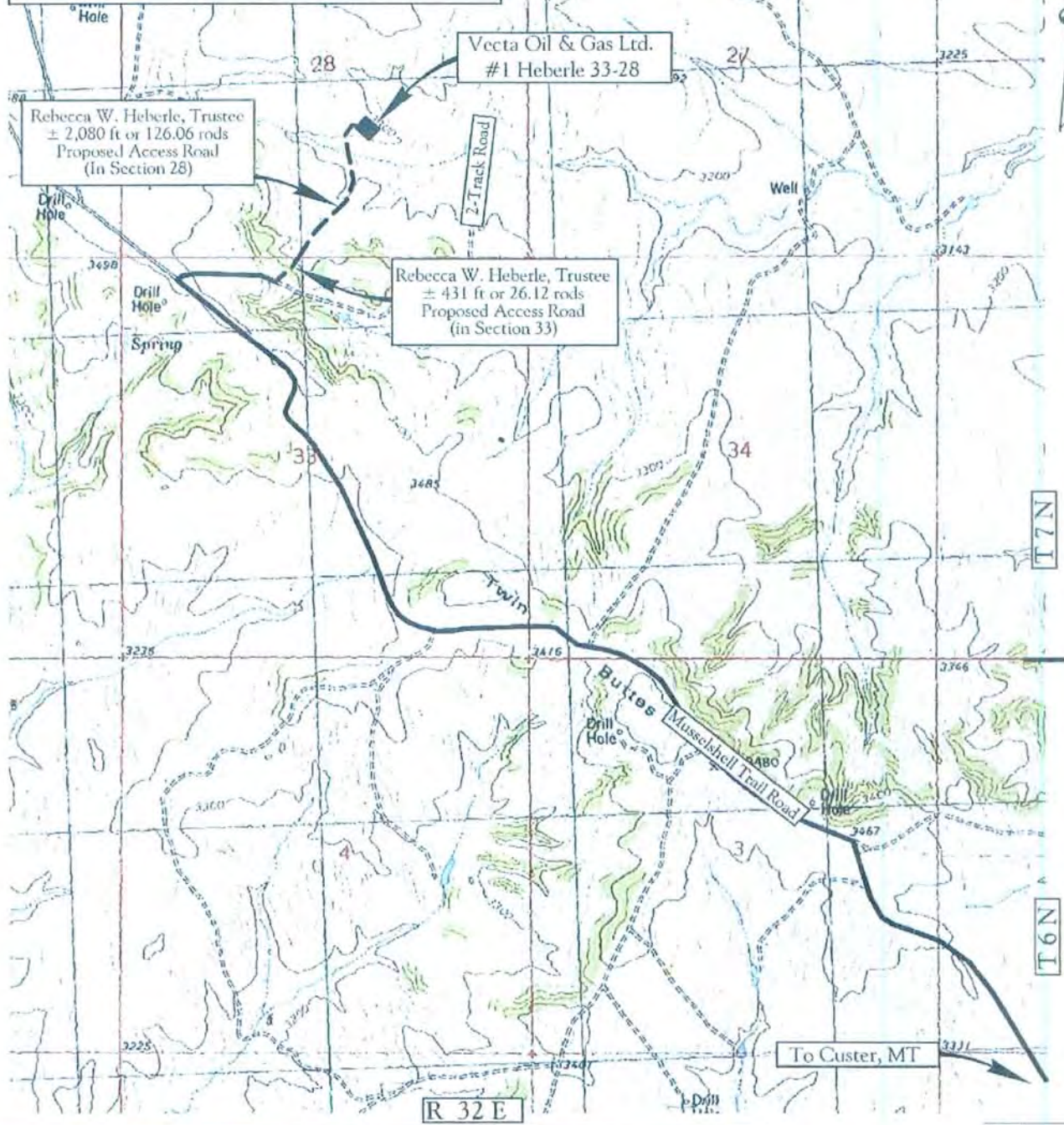
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MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS

Vecta Oil & Gas Ltd.
#1 Heberle 33-28
1667' FSL & 2045' FEL
NW1/4SE1/4 of Section 28
T.7N., R.32E., P.M.M.
Yellowstone County, MT



Map "B"
Quad Access Route

Legend
Existing Roads —————
Proposed Roads - - - - -

Scale 1" = 2000'

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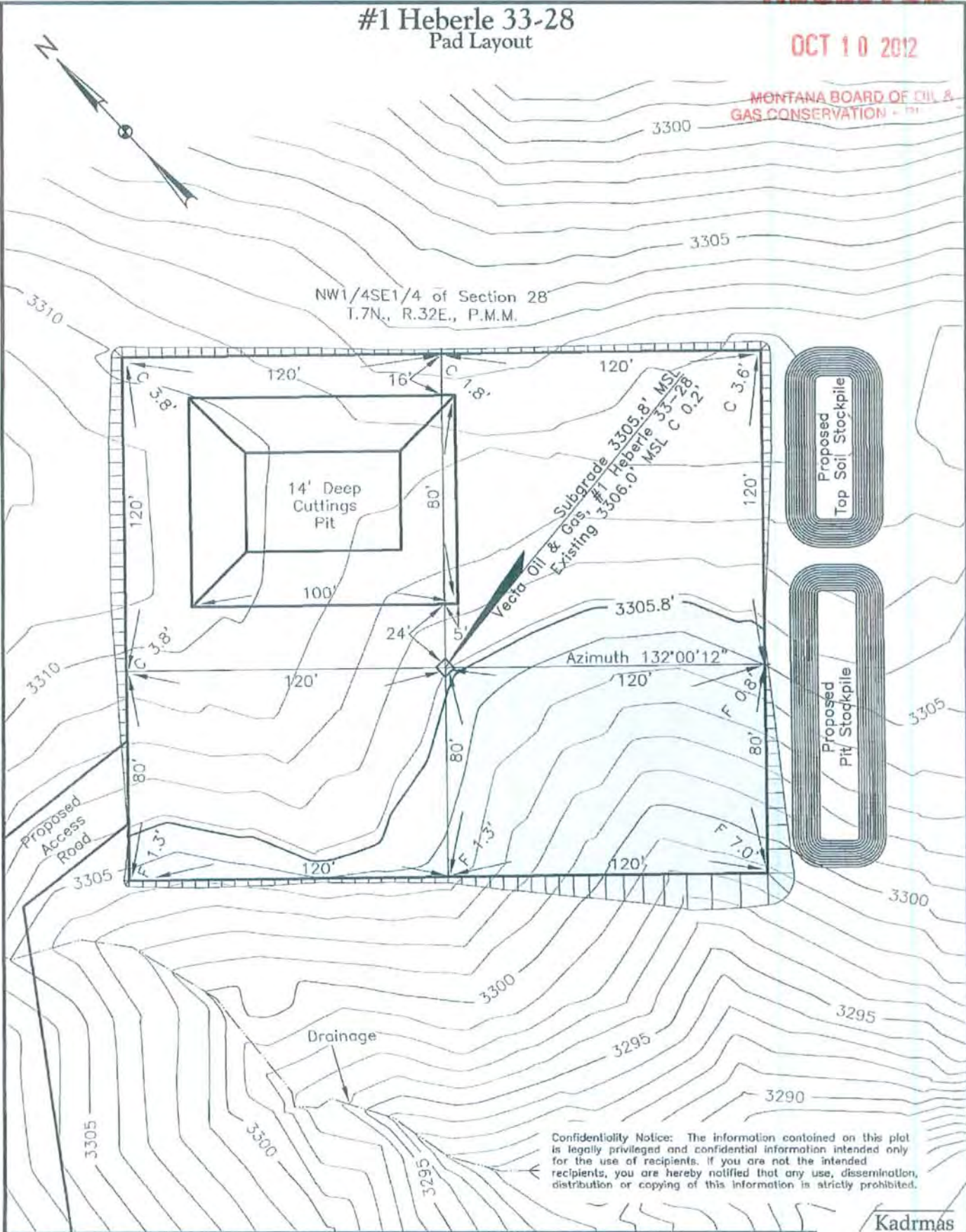
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#1 Heberle 33-28 Pad Layout

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GAS CONSERVATION - 121

NW1/4SE1/4 of Section 28
T.7N., R.32E., P.M.M.



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Computed & Drawn By S. Shangreaux	Surveyed By S. Wood	Approved By D. Magnuson	Scale 1"=50'	Date 8/14/2012
Field Book 02-08	Material Pad Layout	Revised -	Project No. 2712118	Drawing No. 3

Kadmas
Lee &
Jackson
Engineers Surveyors
Planners

OCT 10 2012

Vecta Oil & Gas Ltd.
 #1 Heberle 33-28
 Section 28 T.7N., R.32E., P.M.M.
 Yellowstone County, Montana

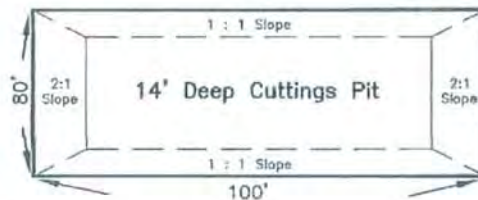
MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS

#1 Heberle 33-28 3306.0' MSL
 Well Pad Elevation 3305.8' MSL

Excavation	3,620 C.Y.
Plus Pit	2,530 C.Y.
	<hr/>
	6,150 C.Y.
Embankment	1,435 C.Y.
Plus Shrinkage (+30%)	430 C.Y.
	<hr/>
	1,865 C.Y.
Stockpile Pit	2,530 C.Y.
Stockpile Top Soil (6")	955 C.Y.
Road Embankment & Stockpile from Pad	800 C.Y.
Disturbed Area From Pad	1.18 Acres

NOTE :
 All cut end slopes are designed at 1:1 slopes &
 All fill end slopes are designed at 1 1/2:1 slopes

#1 Heberle 33-28
 1667' FSL
 2045' FEL



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Computed & Drawn By S. Shangreux	Surveyed By S. Wood	Approved By D. Magnuson	Scale -	Date 8/13/2012
Field Book 02-08	Material Quantities	Revised -	Project No. 2712118	Drawing No. 2

Kadmas
 Lee &
 Jackson
 Engineers Surveyors
 Planners

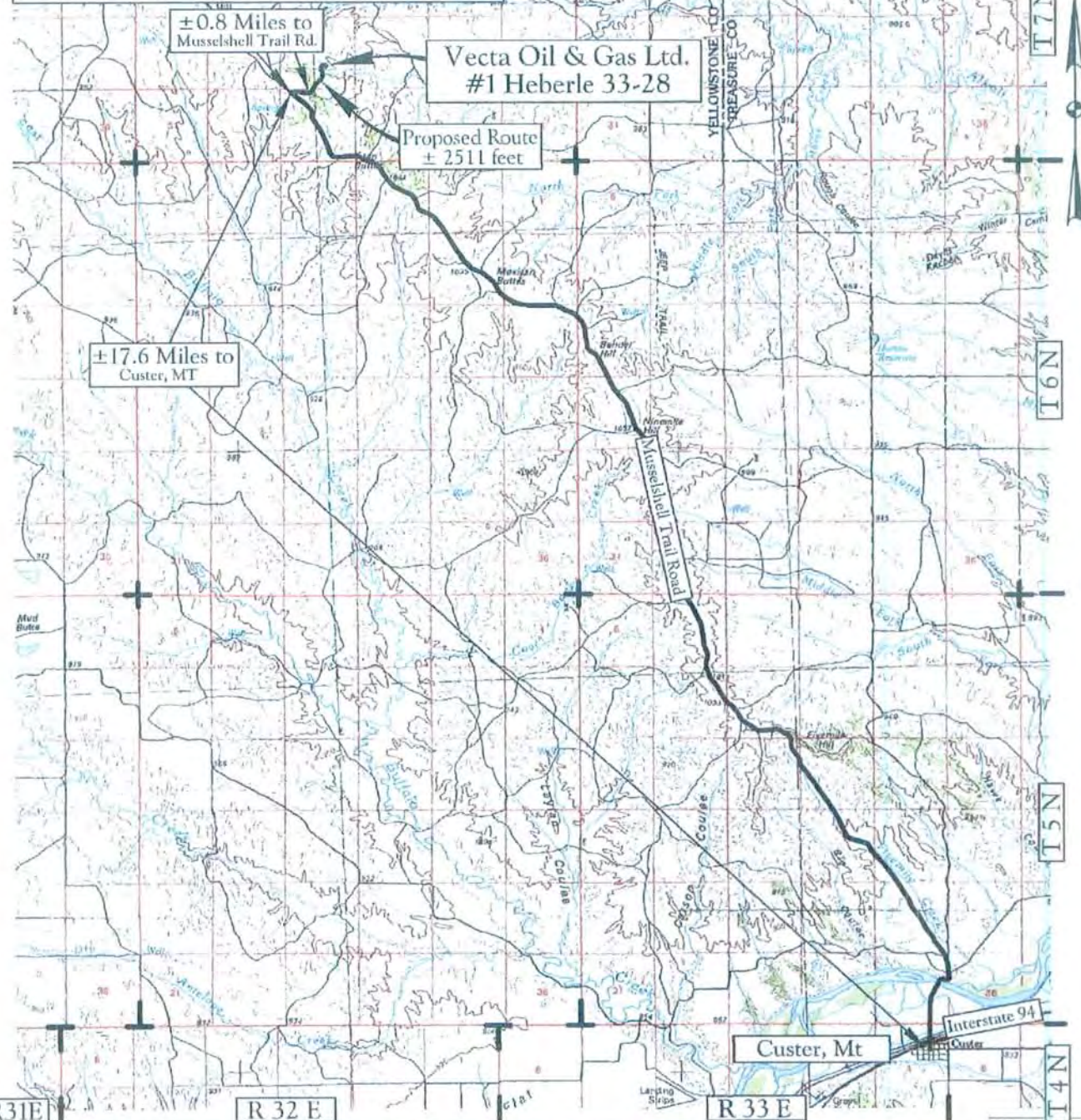
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Vecta Oil & Gas Ltd.
#1 Heberle 33-28
1667' FSL & 2045' FEL
NW1/4SE1/4 of Section 28
T.7N., R.32E., P.M.M.
Yellowstone County, MT

MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS



Map "A"
County Access Route

Legend
Existing Roads —————
Proposed Roads - - - - -

Scale:
1" = 2 Miles

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Engineers Surveyors
Planners

J & L Fencing & Pit Liners, Inc

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Sidney, MT 59270

OCT 12 2012

406-798-3655

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Protector 16 B/B (F)

Specification Sheet

<u>Properties</u>	<u>Unit</u>	<u>Values</u>	<u>Test Method</u>
Unit Weight	oz/yd ²	7.2	ASTM D3776
	tapes/in	Warp 12.2 Weft 9.1	ASTM D3775
Width	In	144"	
Tensile Grab Strength	lbf	Warp 270 Weft 270	ASTM D751
Tear Strength * (tongue)	lbf	Warp 62 Weft 70	ASTM D2261
Scrim Color	mil	Black	
Coating Thickness	mil	Black 1.9 Black 1.9	ASTM D1777 MOD
Low Temperature Bend	131F	n/t	ASTM D2136
Mullen Burst Strength	psi	435	ASTM D751
Water Permeance	g/(m ² /24 hrs)	.02	ASTM D4491
Accelerated Weathering/UV	80% Grab Tensile Strength Restrained 2000 hours		ASTM G154
1" Tensile Elongation	%	12	ASTM D882
Nominal Thickness <small>*Includes force to shift tapes- Tear may be crosswise to direction of force</small>	mil	16	ASTM D1777 MOD

The values listed are typical properties and are intended to be used as guidelines only, not as specification limits. No guarantee or warranty is made by J & L Fencing & Pit Liners, Inc. as the manner of use and handling and site conditions are beyond our control. It is assumed that install in accordance with accepted industry standards.

ARM 36.22.307, 601, 605,
1003, 1004, 1011, 1013,
1103, 1222, 1240, 1301,
1306, 1309, and 1417
RECEIVED
DEC 17 2012

Submit In Quadruplicate To:
MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator Vecta Oil & Gas, Ltd		Lease Name: #1 Heberle
Address 575 Union Blvd., Suite 208		Type (Private/State/Federal/Tribal/Allotted): Private
City Lakewood	State CO	Zip Code 80228
Telephone 303-945-2850	Fax	Well Number: 33-28
Location of well (1/4-1/4 section and footage measurements): NWSE Sec. 28_T7N-R32E 1667' ENL x 2045' FEL <i>FSL</i>		Unit Agreement Name: NA
API Number: 25 111 21271		Field Name or Wildcat: Wildcat-Wolf Springs Area
State 25	County 111	Township, Range, and Section: Sec. 28-T7N-R32E
Well 21271	Well Type (oil, gas, injection, other): Oil	County: Yellowstone

Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input checked="" type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) _____	<input type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.
Request via phone on Monday (11/26/12) to change permitted TD of 5990 ft to 6150 ft. Additional footage needed to obtain a full suite of OH logs across the Amsden formation. Received verbal approval from Steve Sasake on 11/26/12

BOARD USE ONLY

Approved DEC 19 2012
Date

Steve Sasake
Name **CHIEF FIELD INSPECTOR**
Title

The undersigned hereby certifies that the information contained on this application is true and correct:

12.12.12 Date
Harold Pate Signed (Agent)
Print Name and Title **VP-Engn - Vecta**

Telephone: 303-550-4880 (cell)

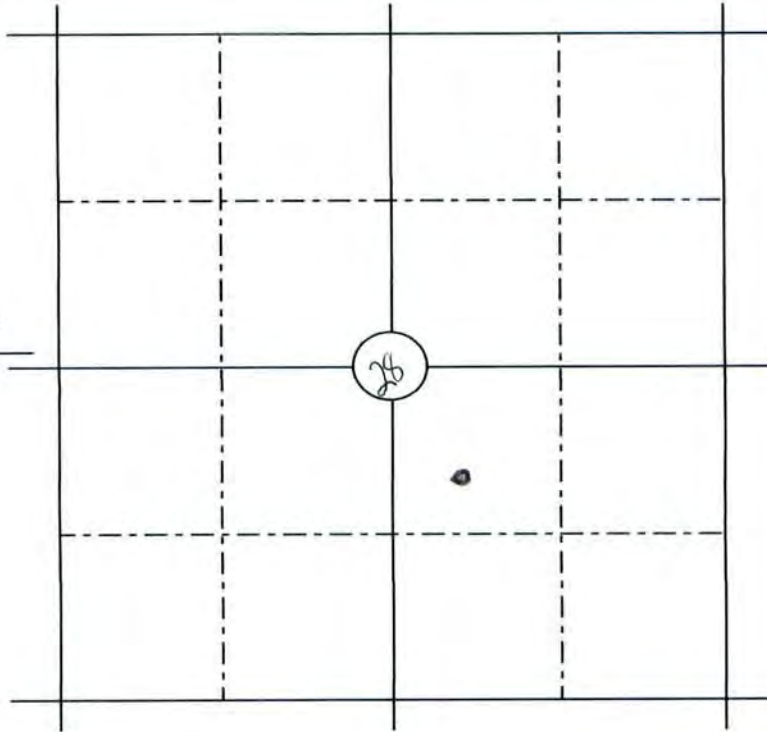
SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.

Range 7N

Township 32E



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DEC 17 2012

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

116-21271

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NOV 16 2012

MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

SPUD INFORMATION

WELL NAME: #1 Heberle 33-28

API #: 111-21271

LOCATION: T7N-R32E-28 NWSE
(Twp-Rge-Sec: 1/4 1/4)

SPUD TIME: 12:00 Noon

DATE: 11-16-12

DRILLING COMPANY: Capstar

RIG #: 314

CALLER'S NAME: Don Friend

COMPANY NAME: Vecto Oil + Gas, Ltd.

OTHER: _____

vj

**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: VECTA Oil and Gas

Well Name/Number: #1 Heberie 33-28

Location: NW SE Section 28T7N R32E

County: Yellowstone, MT; Field (or Wildcat) Wildcat (Wolf Springs Area)

Air Quality

(possible concerns)

Long drilling time: No, 12 to 15 days drilling time.

Unusually deep drilling (high horsepower rig): No, a double or small triple drilling rig to drill to a 5995' TD vertical Amsden Formation well test.

Possible H₂S gas production: Slight H₂S possible.

In/near Class I air quality area: No class I air quality area, in the area of review.

Air quality permit for flaring/venting (if productive) Yes, DEQ air quality permit required under 75-2-211.

Mitigation:

Air quality permit (AQB review)

Gas plants/pipelines available for sour gas

Special equipment/procedures requirements

Other: _____

Comments: No special concerns – using a double or small triple drilling rig to drill a 5990' TD vertical Amsden Formation well test. No gas gathering system exists in this area. Associated sweet gas and H₂S gas can be flared under Board Rule 36.22.1220, if no gathering systems are in close proximity to this well.

Water Quality

(possible concerns)

Salt/oil based mud: No, surface hole will be drilled with freshwater, Rule 36.22.1001. Main hole will be drilled with freshwater and freshwater drilling mud system.

High water table: No high water table in the area of review.

Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral tributary drainage to Butte Creek, also an ephemeral drainage, about 1/16 of a mile to the south from this location. Within this unnamed ephemeral drainage is a stock pond, about ¼ of a mile to the southeast from this location.

Water well contamination: No, closest water wells are about 3/4 of a mile to the east and about 1 mile to the east southeast from this location. This well will drill with freshwater (Rule 36.22.1001) and set 8 5/8" surface casing to 600' and cement to surface. Depth of these water wells range from 300' to 400'. Well will be drill with freshwater based drilling fluids from base of surface casing to TD of 5990' Amsden Formation. If productive 5 ½" production casing will be run and cemented.

Porous/permeable soils: No, silty "Gumbo" clay soils.

Class I stream drainage: No Class I stream drainages.

Mitigation:

Lined reserve pit

Adequate surface casing

Berms/dykes, re-routed drainage
 Closed mud system
 Off-site disposal of solids/**liquids** (in approved facility)
 Other: Drill cuttings will be buried in the lined reserve/cuttings pit and mixed off with dry subsoil. Cuttings pit will be closed when dry. A minimum of four feet (4') dry subsoil and topsoil will cover the reserve/cuttings pit.
Comments: Freshwater mud system to be used on surface hole, Rule 36.22.1001. freshwater mud system will be used out from under surface casing to 5990' TD. Fluids in the lined reserve pit will be trucked to a permitted Class II Disposal. The reserve/cuttings pit will be allowed to dry and then mixed buried with cuttings and subsoil with at least 4' of cover. No concerns.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: No live water stream crossings. Crossing only ephemeral drainages.
High erosion potential: No, small cut, up to 3.8' and small fill, up to 7.0', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, a average location, 200X240' size required.
Damage to improvements: Slight, surface use is grass and sagebrush grazing land.
Conflict with existing land use/values: Slight

Mitigation

Avoid improvements (topographic tolerance)
 Exception location requested
 Stockpile topsoil
 Stream Crossing Permit (other agency review)
 Reclaim unused part of wellsite if productive
 Special construction methods to enhance reclamation
 Other: Requires DEQ General Permit for Storm Water Discharge Associated with Construction Activity, under ARM 17.30.1102(28).
Comments: Access will be from existing county road, Musselshell Trail Road and existing ranch/well trail. About 5/8 of a mile of new road will be constructed into this location off the existing ranch/well trail. Freshwater drill cuttings and mud solids will be buried in the lined reserve/cuttings pit. Lined pit will backfilled with 4' of cover when dry. Drilling fluids will be trucked to a Class II Disposal. No concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: No residences within a 1 mile radius from this location. The town of Custer, Montana is about 19 miles to the southeast from this location.
Possibility of H₂S: Yes, slight chance of H₂S.
Size of rig/length of drilling time: Triple derrick drilling rig, about 10 to 15 days drilling time.

Mitigation:

Proper BOP equipment
 Topographic sound barriers
 H₂S contingency and/or evacuation plan
 Special equipment/procedures requirements

Other: _____
Comments: Operational BOP and adequate surface casing should mitigate any problems. (BOP's 3,000 psig annular, pipe and blind rams) rule 36.22.1014. No concerns.

Wildlife/recreation

(possible concerns)

Proximity to sensitive wildlife areas (DFWP identified): None identified.

Proximity to recreation sites: None identified.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: Threatened or endangered species identified in this county are the Black-Footed Ferret and Whooping Crane. Candidate species are the Greater Sage-Grouse and Sprague's Pipit. NH tracker website lists four (4) "Species of Concern" in T7N R32E. They are the Black-tailed Prairie Dog, Greater Sage-Grouse, Loggerheaded Shrike and the Brewers Sparrow.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____

Comments: Private surface grazing land. There maybe species of concern that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to what he would like done, if a species of concern is discovered at this location. The Board of Oil & Gas has no jurisdiction over private surface lands.

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites None identified.

Mitigation

avoidance (topographic tolerance, location exception)

other agency review (SHPO, DSL, federal agencies)

Other: _____

Comments: Private surface grazing land. There maybe possible historical/cultural/paleontological sites that maybe impacted by this wellsite. We ask the operator to consult with the surface owner as to his desires to preserve these sites or not, if they are found during construction of the wellsite. The Board of Oil & Gas has no jurisdiction over private surface lands.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: Well is a wildcat, until production is established, no social or economic impact can be assessed.

Remarks or Special Concerns for this site

Well is a 5990' TD vertical Amsden Formation well test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur.

I conclude that the approval of the subject Notice of Intent to Drill (does/**does not**) constitute a major action of state government significantly affecting the quality of the human environment, and (does/**does not**) require the preparation of an environmental impact statement.

Prepared by (BOGC): /s/Steven Sasaki

(title:) Chief Field Inspector

Date: October 12, 2012

Other Persons Contacted:

Montana Bureau of Mines and Geology GWIC website

(Name and Agency)

Yellowstone County water wells

(subject discussed)

October 12, 2012

(date)

US Fish and Wildlife, Region 6 website

(Name and Agency)

ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES

MONTANA COUNTIES, Yellowstone County

(subject discussed)

October 12, 2012

(date)

Montana Natural Heritage Program Website (FWP)

(Name and Agency)

Heritage State Rank= S1, S2, S3, T7N R32E

(subject discussed)

October 12, 2012

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

AnimalSubGroup	A ELCODE	SNAME	SCOMNAME	A I FAMILY	F_CommonName	G_RANK	S_RANK
Mammals (Mammæ)	AMAFB06010	Cynomys ludovicianus	Black-tailed Prairie	Sciuridae	Squirrels	G4	S3
Birds (Aves)	ABNLC12010	Centrocercus urophasianus	Greater Sage-Grouse	Phasianidae	Upland Game Bird	G3G4	S2
Birds (Aves)	ABPBR01030	Lanius ludovicianus	Loggerhead Shrike	Laniidae	Shrikes	G4	S3B
Birds (Aves)	ABPBX94040	Spizella breweri	Brewer's Sparrow	Emberizidae	Sparrows	G5	S3B

S_RANK	REASON	USESA	FS	BLM	CFWCS_TierID	COUNTY	SOC	Pcnt_Brei	Pcnt_MT	Short_Habitat
			SENSITIVE	SENSITIVE		1 Big Horn, Blaine, C SOC	15	71	Grasslands	
	C		SENSITIVE	SENSITIVE		1 Beaverhead, Big H SOC	17	75	Sagebrush	
				SENSITIVE		2 Big Horn, Blaine, B SOC	4	100	Shrubland	
				SENSITIVE		2 Beaverhead, Big H SOC	12	100	Sagebrush	

Species faces three:

County/Scientific Name	Common Name	Status
WIBAUX		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	LE
<i>Sterna antillarum athalassos</i>	Interior Least Tern	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C
YELLOWSTONE		
<i>Mustela nigripes</i>	Black-footed Ferret	LE
<i>Grus americana</i>	Whooping Crane	LE
<i>Centrocercus urophasianus</i>	Greater Sage-Grouse	C
<i>Anthus spragueii</i>	Sprague's Pipit	C

Order Number : 20218200
PO Number : Mathew Goolsby
Customer : 60030036 Vecta Oil & Gas Ltd.
Contact : Mathew D. Goolsby
Address1 : 575 Union Blvd, Ste. 208
Address2 :
City St Zip : Lakewood CO 80228
Phone : (303) 618-7736
Fax :
Printed By : Billie Jo Williams
Entered By : Billie Jo Williams
Keywords : BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF TH
Notes :
Zones :

Ad Number : 10552478
Ad Key :
Salesperson : IR19 - Inside Classified Sales - IR19
Publication : Independent Record
Section : Class Section
Sub Section : Legal
Category : 9999 Legals
Dates Run : 09/29/2012-09/29/2012
Days : 1
Size : 2 x 4.27, 44 lines
Words : 319
Ad Rate : Legal Line
Ad Price : 166.32
Amount Paid : 0.00
Amount Due : 166.32

RECEIVED
OCT - 3 2012
MONTANA BOARD OF OIL AND GAS CONSERVATION

BEFORE THE BOARD OF OIL AND GAS CONSERVATION
OF THE STATE OF MONTANA
NOTICE OF INTENTION TO APPLY
FOR PERMIT TO DRILL OIL AND GAS WELL

In the Matter of the application of
Vecta Oil & Gas, Ltd.
for a Permit to Drill an oil and gas well.

1. Name and address of Applicant:

Vecta Oil & Gas, Ltd.
575 Union Blvd., Ste. 208
Lakewood, CO 80228
Attn. Mathew Goolsby

2. Legal Description including County and Approximate Footages of Surface Location of Proposed Oil and Gas Well. (and projected bottom-hole location, if a directional or horizontal well)

Heberle 33-28
NWSE (1667' FSL x 2045' FEL) Sec. 28
T7N-R32E
Yellowstone County, MT

3. Total Depth Proposed to be Drilled:

5990' TD Amsden test

Notice is hereby given that an application for permit to drill an oil and gas well at the surface location set forth above to the depth as stated will be filed with the Montana Board of Oil and Gas Conservation. Pursuant to Rules 36.22.601 and 36.22.604, Administrative Rules of Montana, an interested party may demand an opportunity to be heard by the Montana Board of Oil and Gas Conservation concerning the application. SUCH DEMAND FOR HEARING MUST BE RECEIVED BY THE MONTANA BOARD OF OIL AND GAS CONSERVATION AT THE ADDRESS SET FORTH BELOW NO LATER THAN TEN (10) DAYS AFTER THE DATE OF PUBLICATION OF THIS NOTICE, OR THE APPLICATION WILL BE ACTED UPON BY THE BOARD'S PETROLEUM ENGINEER WITHOUT HEARING. A DEMAND MUST: (1) SET FORTH THE NAME, ADDRESS AND TELEPHONE NUMBER OF EACH INTERESTED PARTY, THEIR OWNERSHIP INTEREST IN THE LANDS SURROUNDING THE PROPOSED WELL, AND THE REASONS WHY A HEARING IS SOUGHT; (2) BE SERVED UPON THE APPLICANT BY COPY MAILED OR FAX TRANSMITTED TO THE ADDRESS SET FORTH ABOVE.

Montana Board of Oil and Gas Conservation
2535 St. John's Avenue
Billings, MT 59102
Office (406) 656-0040
Fax: (406) 655-6015
September 29, 2012

AFFIDAVIT OF PUBLICATION

STATE OF MONTANA,
County of Lewis & Clark

Billie Jo Williams

Being duly sworn, deposes and says;

That she is the principal clerk of the Independent Record, a newspaper of general circulation published daily in the City of Helena, in the County of Lewis & Clark, State of Montana, and has charge of the advertisement thereof:

That the Notice of Intention to Drill
Heberle 33-28

a true copy of which is hereto annexed, was published in said newspaper on the following dates: viz.:

September 29, 2012

making in all 1 publication(s)

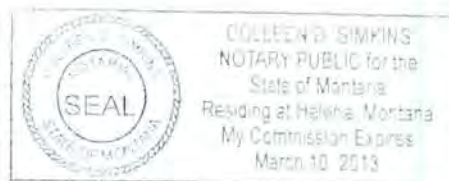
Subscribed and sworn to me this 1 day of October, 2012.

Billie Jo Williams

Colleen D. Simkins

Notary Public for the State of Montana
Printed Name: Colleen D. Simkins
Residing at Helena, Montana
My commission expires March 10, 2013

(Notary Seal)



RECEIVED

OCT 12 2012

AFFIDAVIT OF PUBLICATION
THE BILLINGS GAZETTE

401 N 28th St

Billings, MT 59101

Phone: (406) 657-1212 Fax: (406) 657-1345

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Ad Number: 204 86927

BEFORE THE BOARD OF OIL AND
GAS CONSERVATION OF THE
STATE OF MONTANA

In the Matter of the application of
Vecta Oil & Gas, Ltd.

for a Permit to Drill an oil and gas well.
NOTICE OF
INTENTION TO APPLY
FOR PERMIT TO DRILL
OIL AND GAS WELL

1. Name and address of Applicant:

Vecta Oil & Gas, Ltd.
575 Union Blvd., Ste. 208
Lakewood, CO 80228
Attn: Mathew Goolsby

2. Legal Description including County
and Approximate Footages of Surface
Location of Proposed Oil and Gas
Well: (and projected bottom-hole loca-
tion, if a directional or horizontal well)

Heberle 33-28
NWSE
(1867' FSL x 2045' FEL) Sec. 28
T7N-R32E
Yellowstone County, MT

3. Total Depth Proposed to be Drilled:

5990' TD Amsden test

4. This notice corrects a previous
notice published on August 3,
2012, which incorrectly misspelled
the subject name.

Notice is hereby given that an applica-
tion for permit to drill an oil and gas
well at the surface location set forth
above to the depth as stated will be
filed with the Montana Board of Oil
and Gas Conservation. Pursuant to
Rules 36.22.601 and 36.22.604, Ad-
ministrative Rules of Montana, an in-
terested party may demand an oppor-
tunity to be heard by the Montana
Board of Oil and Gas Conservation
concerning the application. SUCH
DEMAND FOR HEARING MUST BE
RECEIVED BY THE MONTANA
BOARD OF OIL AND GAS
CONSERVATION AT THE ADDRESS
SET FORTH BELOW NO LATER
THAN TEN (10) DAYS AFTER THE
DATE OF PUBLICATION OF THIS
NOTICE, OR THE APPLICATION
WILL BE ACTED UPON BY THE
BOARD'S PETROLEUM ENGINEER
WITHOUT HEARING. A DEMAND
MUST: (1) SET FORTH THE NAME,
ADDRESS AND TELEPHONE NUM-
BER OF EACH INTERESTED PARTY,
THEIR OWNERSHIP INTEREST IN
THE LANDS SURROUNDING THE
PROPOSED WELL, AND THE REA-
SONS WHY A HEARING IS SOUGHT;
(2) BE SERVED UPON THE APPLI-
CANT BY COPY MAILED OR FAX
TRANSMITTED TO THE ADDRESS
SET FORTH ABOVE.

Montana Board of Oil and Gas
Conservation
2535 St. Johns Avenue
Billings MT 59102
Office: (406) 656-0040
Fax: (406) 655-6015
September 28, 2012

Bridget Lambert, being first duly sworn, deposes and
says. That she is the principal clerk of The Billings Gazette, a
newspaper of general circulation published daily in the City of
Billings, in the County of Yellowstone, State of Montana, and
has charge of the Advertisements thereof.

That the: 82 line legal regarding:
a true copy of which is hereto annexed, was published in said
newspaper on the following dates: via:

9/28/2012

Making all 1 publication(s)

Mark below if certification for the State of Montana

I hereby certify that I have read sec. 18-7-204 and 18-7-
205, MCA, and subsequent revisions, and declare that the price
or rate charged the State of Montana for the publication for
which claim is made in the attached papers in the amount of
\$ _____ is not in excess of the minimum rate charged any
other advertiser for publication of advertisement, set in the same
size type and published for the same number of insertions,
further certify that this claim is correct and just in all respects,
and that payment or credit has not been received

Bridget D. Lambert

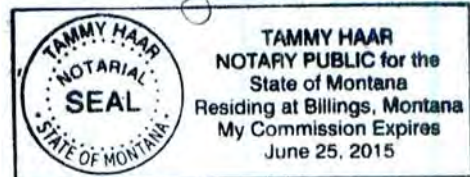
STATE OF MONTANA

County of Yellowstone

On this day of Sept 28, 2012 before me, the
undersigned, a Notary Public for the State of Montana,
personally appeared Bridget Lambert
known to me to be the person whose name is subscribed to the
within instrument and acknowledged to me that he/she executed
same. IN WITNESS WHEREOF, I have hereunto set my hand
and affixed my notarial seal the day and year first above written.

[Signature]
NOTARY PUBLIC for the State of Montana
Residing at Billings, MT

My commission expires: June 25, 2015



RECEIVED

APR 12 2013

Submit In Quadruplicate To:

**MONTANA BOARD OF OIL AND GAS CONSERVATION
2535 ST. JOHNS AVENUE
BILLINGS, MONTANA 59102**

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

SUNDRY NOTICES AND REPORT OF WELLS

Operator Vecta Oil and Gas, Ltd.		Lease Name: #1 Heberle
Address 575 Union Blvd, Suite 208		Type (Private/State/Federal/Tribal/Allotted): Private
City Lakewood	State CO	Well Number: 33-28
Zip Code 80228	Telephone 303-945-2850	Unit Agreement Name: N/A
Fax		Field Name or Wildcat: Wolf Springs Area (Wildcat)
Location of well (1/4-1/4 section and footage measurements): NWSE Sec 28 T7N R32E 1667' FSL, 2045' FEL		Township, Range, and Section: Sec 28 T7N R32E
API Number: 25 111 21271	Well Type (oil, gas, injection, other): Oil	County: Yellowstone Co, MT
State	County	Well

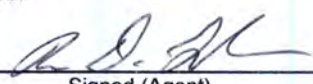
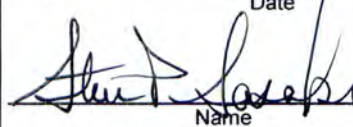
Indicate below with an X the nature of this notice, report, or other data:

Notice of Intention to Change Plans	<input type="checkbox"/>	Subsequent Report of Mechanical Integrity Test	<input type="checkbox"/>
Notice of Intention to Run Mechanical Integrity Test	<input type="checkbox"/>	Subsequent Report of Stimulation or Treatment	<input type="checkbox"/>
Notice of Intention to Stimulate or to Chemically Treat	<input type="checkbox"/>	Subsequent Report of Perforation or Cementing	<input type="checkbox"/>
Notice of Intention to Perforate or to Cement	<input type="checkbox"/>	Subsequent Report of Well Abandonment	<input type="checkbox"/>
Notice of Intention to Abandon Well	<input type="checkbox"/>	Subsequent Report of Pulled or Altered Casing	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing	<input type="checkbox"/>	Subsequent Report of Drilling Waste Disposal	<input type="checkbox"/>
Notice of Intention to Change Well Status	<input type="checkbox"/>	Subsequent Report of Production Waste Disposal	<input type="checkbox"/>
Supplemental Well History	<input type="checkbox"/>	Subsequent Report of Change in Well Status	<input type="checkbox"/>
Other (specify) Notice of Intention to Reclaim Reserve Pit.	<input checked="" type="checkbox"/>	Subsequent Report of Gas Analysis (ARM 36.22.1222)	<input type="checkbox"/>

Describe Proposed or Completed Operations:

Describe planned or completed work in detail. Attach maps, well-bore configuration diagrams, analyses, or other information as necessary. Indicate the intended starting date for proposed operations or the completion date for completed operations.

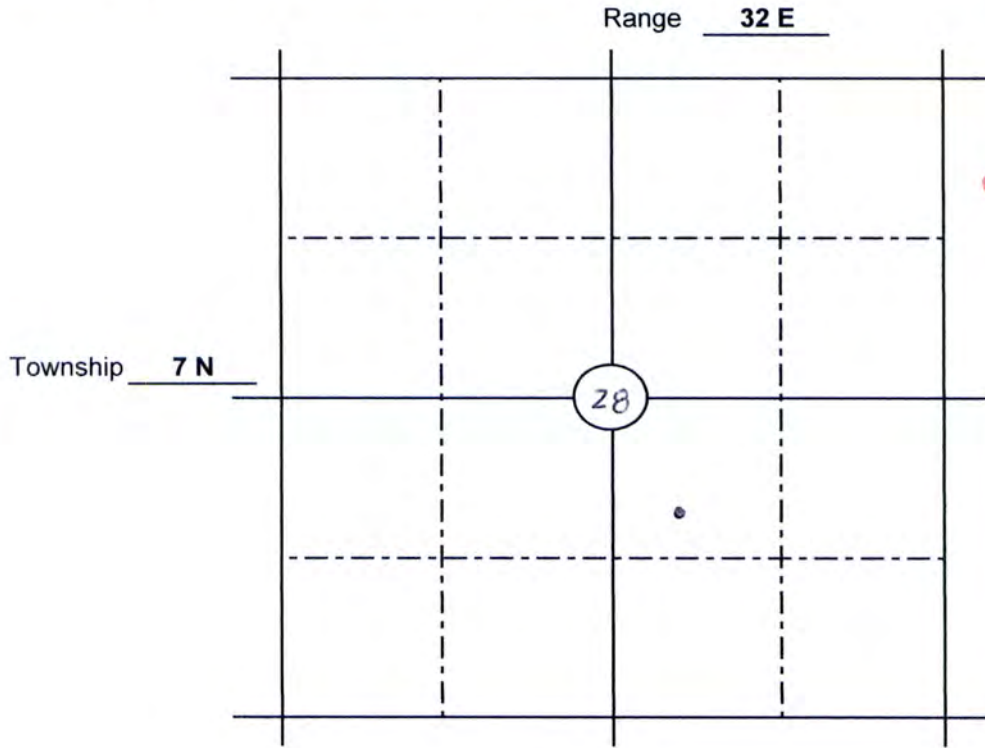
Operator has completed the well and allowed frost to come out of ground enabling a dirt contractor to successfully reclaim the reserve pit. The reclaim includes draining the drilling reserve pit fluid and solidifying the cuttings before setting 3' of native soil on top of pit. Topsoil will be spread and landowner approved seeding will be done to maximize growth of new plants to reduce erosion. James Brewer with C Brewer Inc will be handling the reclaim project.

BOARD USE ONLY		The undersigned hereby certifies that the information contained on this application is true and correct:	
Approved	<u>APR 17 2013</u>	<u>4-11-13</u>	
	Date	Date	Signed (Agent)
	CHIEF FIELD INSPECTOR	Ren Gardner - Agent	
Name	Title	Print Name and Title	
		Telephone:	<u>406-259-4878</u>

SUPPLEMENTAL INFORMATION

NOTE: Additional information or attachments may be required by Rule or by special request.

Plot the location of the well or site that is the subject of this notice or report.



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MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

BOARD USE ONLY

CONDITIONS OF APPROVAL

The operator must comply with the following condition(s) of approval:

Failure to comply with the conditions of approval may void this permit.

25-111-21271

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**MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS**

April 11,2013

Montana Board of Oil & Gas Conservation
2535 St. Johns Avenue
Billings, Montana 59102

Attn: To Whom it May Concern

Re: Notice of Intent Sundry
Vecta Oil and Gas
#1 Heberle 33-28
Yellowstone County, Montana

To Whom it May Concern,

Please find four signed copies of Notice of Intent Sundry to reclaim reserve pit and reseedng procedure.

If you have any questions concerning the enclosed sundry's please call Ren Gardner, petroleum engineer @ Welter Consulting, at (406) 853-5913.

Yours very truly,



Ren Gardner
Agent
Vecta Oil and Gas

25-111-21271 P-0021443

DEC 20 2012

Mohall ND (701) 756-7291
Williston ND (701) 572-7102



Technical Services
(888) 389-8389

MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS

OPERATOR: VECTA OIL & GAS LTD
WELL NAME: 1 HEBERLE 33-28

TEST NO: 1
TICKET NO: 3270

Contractor Capstar Drilling
Rig No. 314
Spot NW/SE
Sec 28
Twp 7 N
Rng 32 E
Field Wildcat
County Yellowstone
State Montana
Elevation 3317' KB
Formation Amsden

Surface Choke 1/4"
Bottom Choke 3/4"
Hole Size 7 7/8"
Core Hole Size
DP Size & Wt 4 1/2" 16.60
HWDP Size
ID of DC 2 1/2"
Length of DC 298'
Total Depth 5980'
Type of Test Conventional
Interval 5910'-5980'

Mud Type Fresh Water
Weight 8.85
Viscosity 38
Water Loss 7.6
Filter Cake 2/32
RW 5.5 @ 65 Deg F
1,100 Ppm
Co. Rep. Dan Friend
Tester Nathan Finsaas

Pipe recovery:

257' Mud = 1.57 bbl.

Properties:

Top Rw: 5.5 @ 65 deg F/1,100 ppm
Middle Rw: 5.5 @ 65 deg F/1,100 ppm
Bottom Rw: 5.5 @ 65 deg F/1,100 ppm

Downhole Sampler

Pressure in Sampler 7 psig
Volume of Sampler cc
Volume of Sample cc
Oil: cc
Water: Sampler Was cc
Mud: Completely Plugged cc
Gas: cu ft
Other:
Rw: @ Deg F
Chlorides: Ppm
Gas/Oil Ratio
Gravity API @ 60 Deg F

Surface blow:

1st Flow - Began with no blow and remained dead thru flow period.

2nd Flow - Began with no blow and remained dead thru flow period.

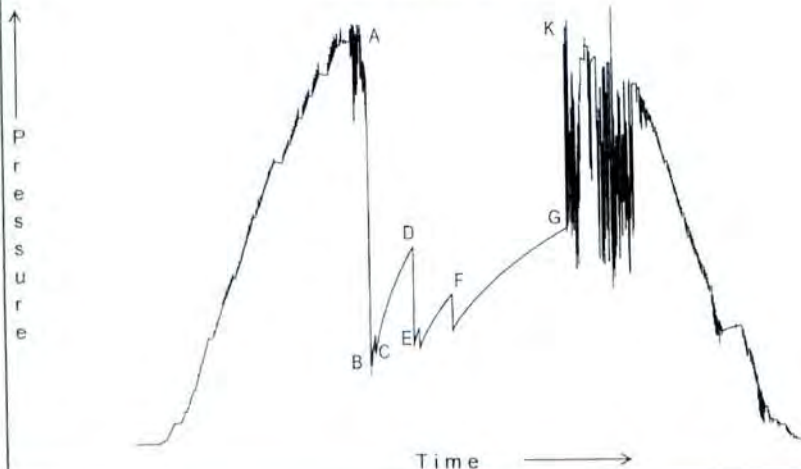
Remarks: Encountered 25 feet of fill on bottom. Worked tool thru 15 feet of fill, then opened tool and slid 10 feet to bottom. The pressure data indicates severe plugging to complete plugging during both flowing periods.

** MISRUN **

Opened Tool @ 08:15 hrs on 11/25/2012

	Reported	Corrected	
Flow 1	10	8	min
Shut-in 1	60	60	min
Flow 2	60	60	min
Shut-in 2	180	181	min

Downhole Pressure Chart



Downhole Pressure Data

Recorder Type JMCO Memory Recorder
No. 3382 Cap 10000 psi
Depth 5884 ft.
Inside x Outside
Psia Deg f

Initial Hydrostatic	[A]	2753	
Final Hydrostatic	[K]	2668	
Initial Flow 1	[B]	455	157
Final Flow 1	[C]	742	157
Initial Flow 2	[E]	669	158
Final Flow 2	[F]	1022	159
Shut-in 1	[D]	1350	158
Shut-in 2	[G]	1471	161
Maximum Temperature			161

OPERATOR: VECTA OIL & GAS LTD
WELL NAME: 1 HEBERLE 33-28

FORMATION: AMSDEN
INTERVAL: 5910'-5980'

TEST NO: 1
DATE: 11-25-2012

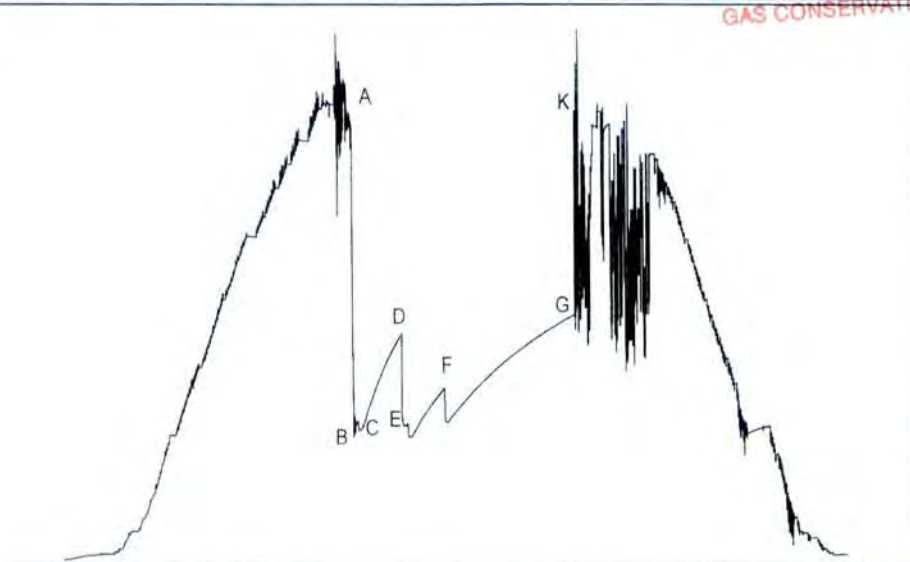


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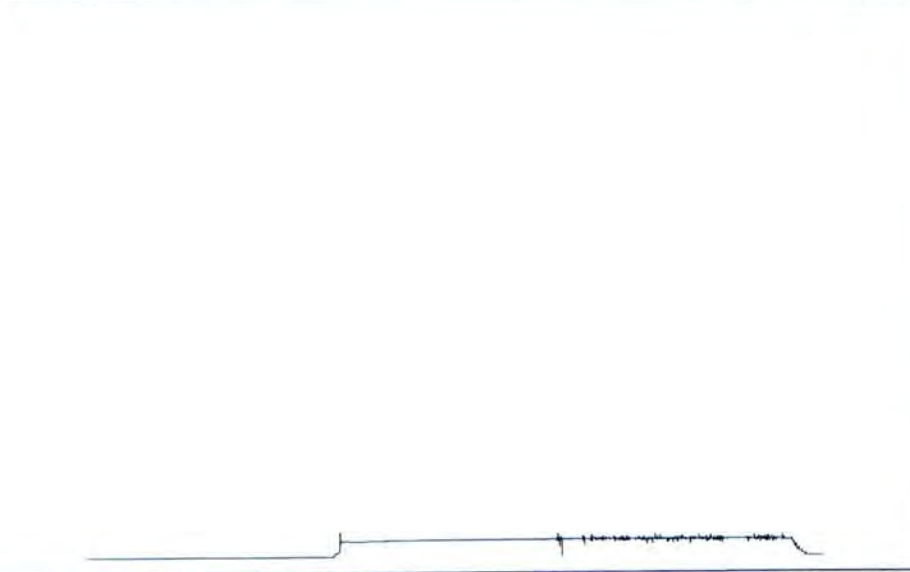
OPERATOR: Vecta Oil & Gas Ltd
WELL NAME: 1 Heberle 33-28
TEST NO: 1

DEC 20 2012

MONTANA BOARD OF OIL &
GAS CONSERVATION - BILLINGS



Recorder Type	JMCO Memory Recorder		
No.	3384	Cap.	10000 psi
Depth	5978		ft.
Inside		Outside	X
Initial Hydrostatic	A	2796]	Psia
Final Hydrostatic	K	2711	
Initial Flow 1	B	765	
Final Flow 1	C	866	
Initial Flow 2	E	915	
Final Flow 2	F	1070	
Shut-in 1	D	1396	
Shut-in 2	G	1516	
Maximum BHT		173	Deg f



Recorder Type	JMCO Memory Recorder		
No.	30107	Cap.	10000 psi
Depth	5868 (Above Tool)		ft.
Inside	X	Outside	
Initial Hydrostatic	A		Psia
Final Hydrostatic	K		
Initial Flow 1	B	15	
Final Flow 1	C	111	
Initial Flow 2	E	112	
Final Flow 2	F	117	
Shut-in 1	D	112	
Shut-in 2	G	119	
Maximum BHT		162	Deg f

This data indicates no leaks in the string above the tool.



Gauge Type			
No.		Cap.	psi
Depth			ft.
Inside		Outside	
Initial Hydrostatic	A		Psia
Final Hydrostatic	K		
Initial Flow 1	B		
Final Flow 1	C		
Initial Flow 2	E		
Final Flow 2	F		
Shut-in 1	D		
Shut-in 2	G		
Maximum BHT			Deg f



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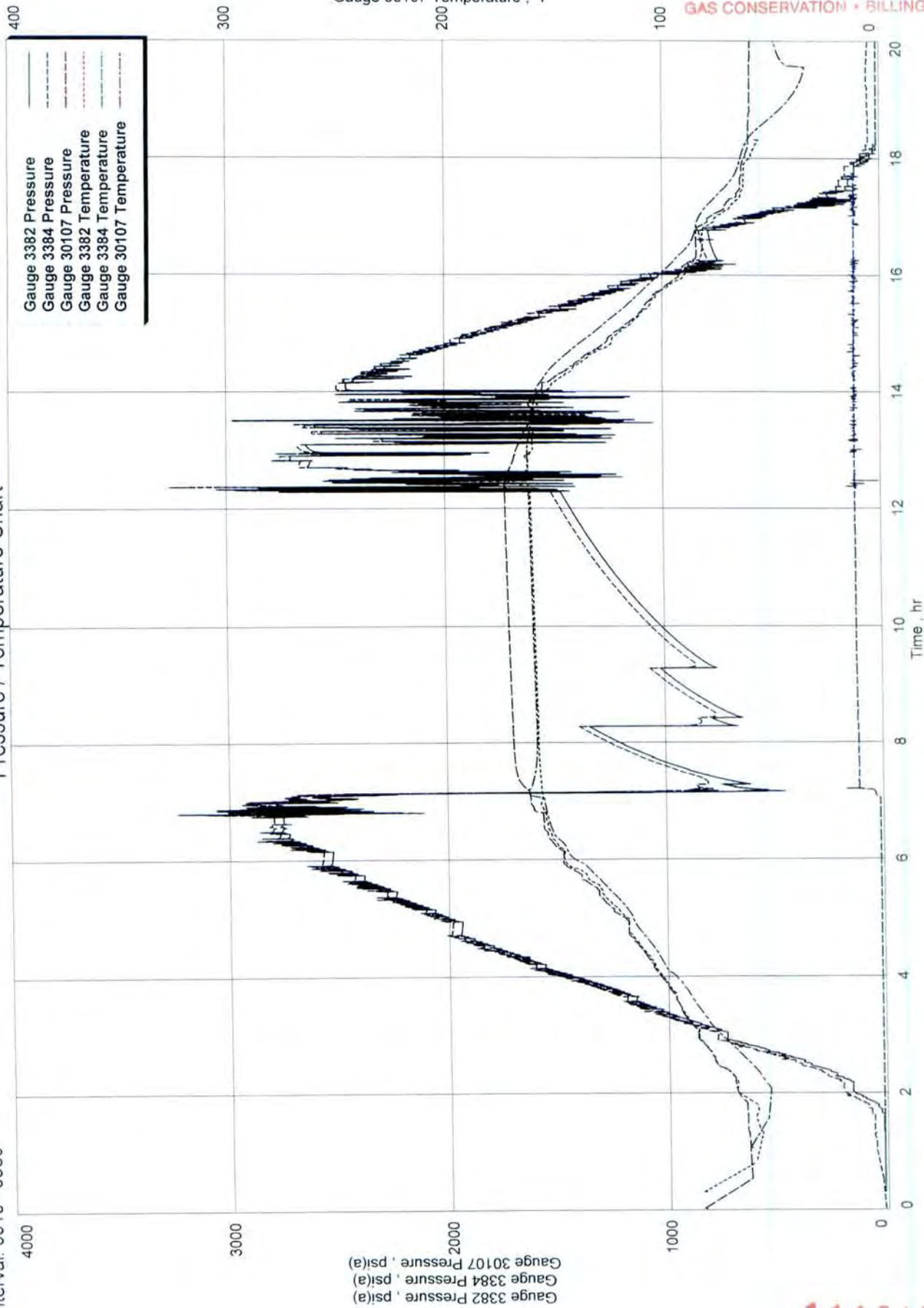
Fast

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

1 Heberle 33-28, Dst 1
Formation: Amsden

Gauge 3382 Temperature, °F
Gauge 3384 Temperature, °F
Gauge 30107 Temperature, °F

Pressure / Temperature Chart



Vectra Oil & Gas Ltd
Interval: 5910' - 5980'

11121271

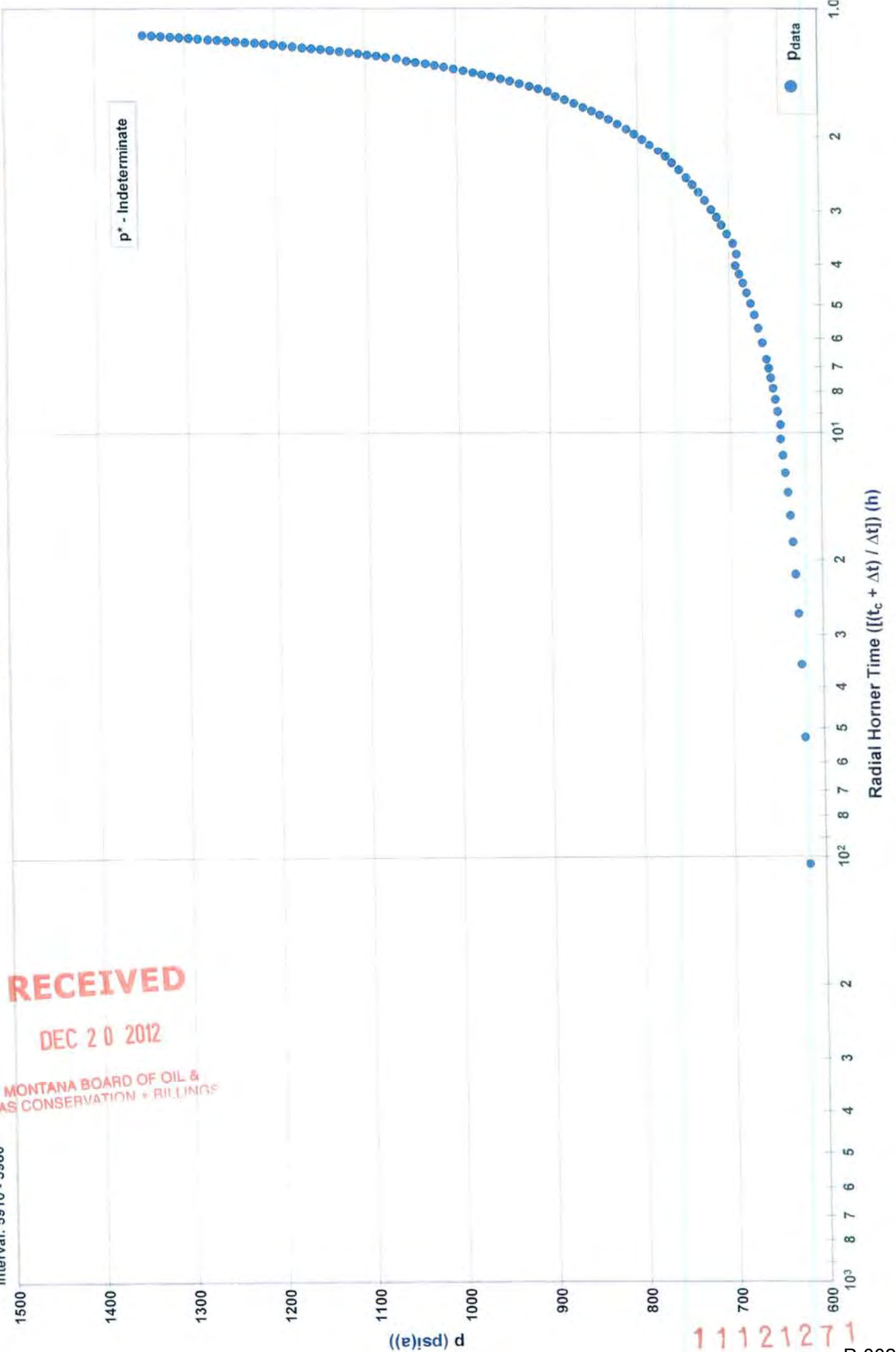
P-0021446

1 Heberle 33-28, Dst 1
Formation: Amsden

Diagnostic Plot - Shut In 1 Radial

Vecta Oil & Gas Ltd
Interval: 5910' - 5980'

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GAS CONSERVATION + BILLINGS

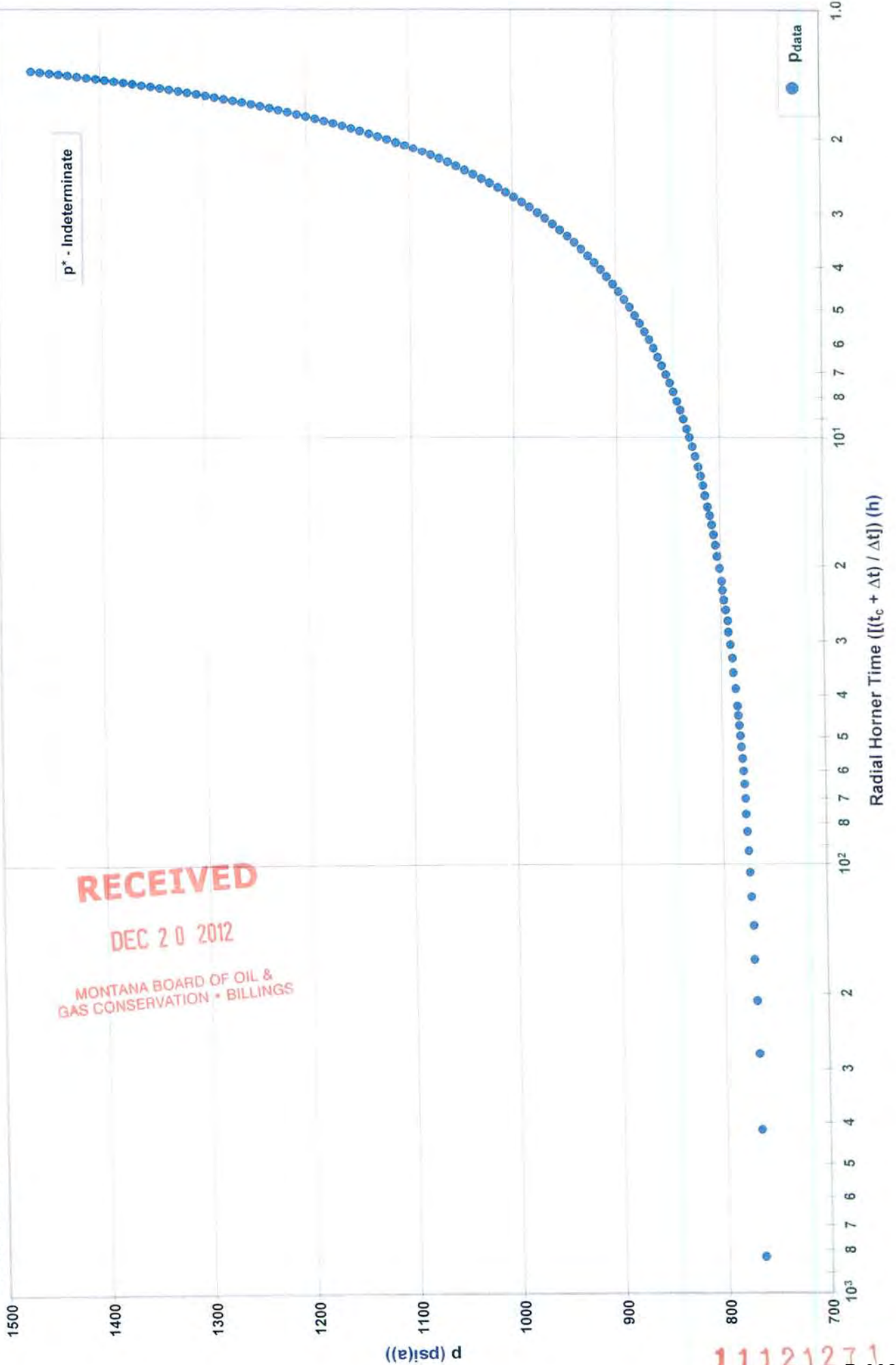


11121271

Diagnostic Plot - Shut In 2 Radial

1 Heberle 33-28, Dst 1
Formation: Amsden

Vecta Oil & Gas Ltd
Interval: 5910' - 5980'

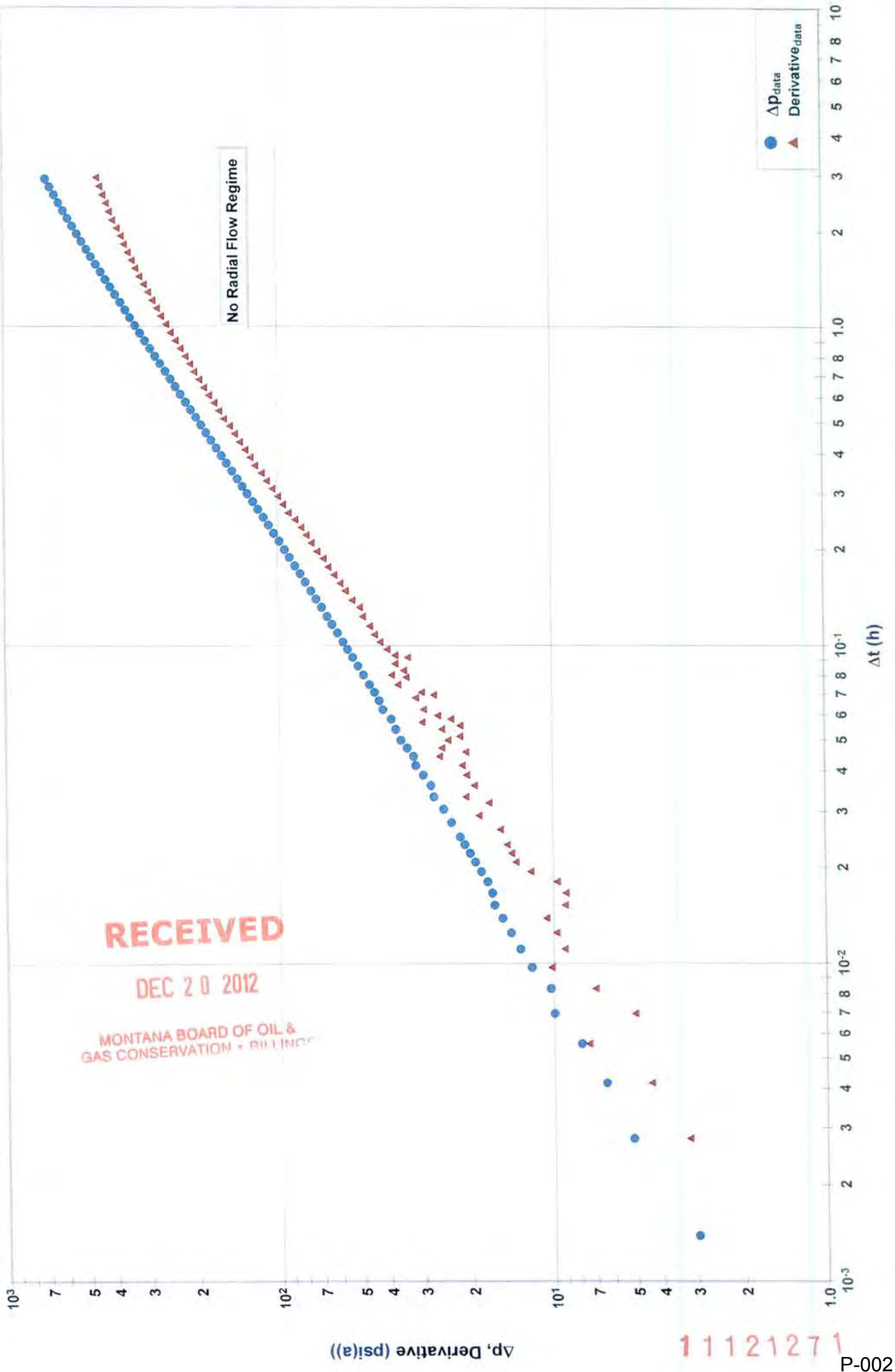


11121271

Diagnostic Plot - Shut In 2 Typecurve

1 Heberle 33-28, Dst 1
Formation: Amsden

Vecta Oil & Gas Ltd
Interval: 5910' - 5980'



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GAS CONSERVATION - BILLINGS

11121271



**Pumping
Service Report**

9159249

Client Name Vecta Oil and Gas	Well Name #1 Heberle 33-28	Job Date November 17, 2012	Call Sheet 1016072
Client Representative Mr. Dan Friend	Location Sec 28:T7N:R32E	Job Type Surface Casing	

Well Profile										
Maximum Treating Pressure (psi):										
Predicted Bottom Hole Static Temperature (°F):										
Bottom Hole Circulating Temperature (°F):										
Bottom Hole Logged Temperature (°F):										
Open Hole										
	<u>Size (in)</u>		<u>Excess (%)</u>		<u>TMD From (ft)</u>	<u>TMD To (ft)</u>	<u>TVD From (ft)</u>		<u>TVD To (ft)</u>	
	12.250		65.000		0.000	600.000	--		--	
Casing										
	<u>Size (in)</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Collapse Pressure (psi)</u>	<u>Internal Yield Pressure (psi)</u>	<u>Capacity (bbl)</u>	<u>I.D. (in)</u>	<u>O.D. (in)</u>	<u>Depth From (ft)</u>	<u>Depth To (ft)</u>
	8.625	36.000	J-55	3,450.0	4,460.0	35.69	7.825	9.625	0.0	600.0

Products	
Treatment Interval 1	
From Depth (ft):	0
To Depth (ft):	600
Acids/Blends/Fluids:	
Lead 1: 235 Sacks of Control Set C, Density = 13.5 lb/gal, Volume Pumped = 72.8 (bbl)	
Water Temperature(°F) = 45, Bulk Temperature(°F) = 70, Slurry Temperature(°F) = 65	
+ 0.25 lb/sack of Polyflake (Preblend)	

Fluid & Cement Data					
Expected Cement Top: Surface					
Wellbore Fluid					
<u>Fluid Type</u>	<u>Viscosity (cP)</u>	<u>Density (lbs/gal)</u>	<u>Yield Point (psi)</u>	<u>Temperature (°F)</u>	<u>Recorded@</u>
Water	--	--	--	--	Oct 29, 2012 13:20

Attachment & Tools		
Tubular Plugs		
<u>Tubular Plug Type</u>	<u>Size (in)</u>	<u>Supplier</u>
Rubber Top	8.625	Sanjel

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**MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS**

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen	Print Date: November 17, 2012
Canada • USA • International	Service Report: 9159249
	Page 1 of 3 V3.5.0.0



**Pumping
Service Report**

9159249

Units & Personnel							
Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200577	PICKUP	3/4 Ton				11/17/12 16:00	11/17/12 21:00
43 740071	BODY JOB	C & A				11/17/12 16:00	11/17/12 21:00
446095	TRAILER	Bulker	43 746095	TRACTOR	Bulk	11/17/12 16:00	11/17/12 21:00
Crew and Bonuses							
Employee	Start Shift	End Shift	Second Start Shift	Second End Shift			
Oswald, John	11/17/2012 16:00	11/17/2012 21:00					
Merrion, Ryan	11/17/2012 16:00	11/17/2012 21:00					
Marks, Justin	11/17/2012 16:00	11/17/2012 21:00					
Rich, Ronald	11/17/2012 16:00	11/17/2012 21:00					

Treatment Reports & Remarks									
Volume To Formation									
Stage/Plug/Treatment Interval Name	Volume To Formation (bbl)								
Treatment Interval 1	--								
Treatment Report									
Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)	
1	Nov 17, 2012 16:00	Arrive On Location	--	--	--	--	--	0.00	
2	Nov 17, 2012 16:05	Tailgate Meeting	--	--	--	--	--	0.00	
3	Nov 17, 2012 16:07	JSA	--	--	--	--	--	0.00	
Remarks: Wear proper PPE, use teamwork, watch for slips, trips, falls, pinch points.									
4	Nov 17, 2012 17:30	Rig In	--	--	--	--	--	0.00	
5	Nov 17, 2012 18:45	Safety Meeting	--	--	--	--	--	0.00	
6	Nov 17, 2012 18:50	Sign-off on Safety	--	--	--	--	--	0.00	
7	Nov 17, 2012 19:00	Pressure Test	Water	--	--	--	--	0.00	
Remarks: Tested lines to 2000 psi.									
8	Nov 17, 2012 19:07	Pump Preflush	Water	4.50	100.0	--	20.00	20.00	
9	Nov 17, 2012 19:13	Mix Cement	Control Set C	4.50	150.0	--	72.80	92.80	
10	Nov 17, 2012 19:34	Drop Plug	--	--	--	--	--	92.80	
11	Nov 17, 2012 19:37	Pump Displacement	Water	4.00	160.0	--	36.50	129.30	
Remarks: Slowed down to 2bpm last 10 bbls..									
12	Nov 17, 2012 19:49	Bump Plug	Water	--	1,000.0	--	--	129.30	
Remarks: Held for 1 minute than bled pressure back.									
13	Nov 17, 2012 19:52	Rig Out	--	--	--	--	--	0.00	
14	Nov 17, 2012 20:40	Job Complete	--	--	--	--	--	0.00	
15	Nov 17, 2012 20:50	Pre-Departure Meeting	--	--	--	--	--	0.00	
16	Nov 17, 2012 21:00	Leave Location	--	--	--	--	--	0.00	



**Pumping
Service Report**

9159249

Treatment Reports & Remarks

Did Float Hold: Yes
Fluid Returns : Yes
Type : Cement
Volume (bbl) : 16
Temperature (°F) : 70
FDAS Functioning Correctly : Yes
Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

30575



Pumping
Service Report

9156727

Client Name Vecta Oil and Gas	Well Name #1 Heberle 33-28	Job Date November 21, 2012	Call Sheet 1016274
Client Representative Mr. Dan Friend	Location Sec 28:T7N:R32E	Job Type Lost Circulation Plug	

Well Profile									
Maximum Treating Pressure (psi):	---								
Predicted Bottom Hole Static Temperature (°F):	130.00	@	--						
Bottom Hole Circulating Temperature (°F):	---	@	--						
Bottom Hole Logged Temperature (°F):	---	@	--						
Open Hole									
	Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)			
	7.875	--	0.000	5,150.000	--	--			
Drill Pipe									
	Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
	4.500	16.600	X	12,750.000	73.230	3.826	6.250	0.000	5,150.000

Products	
Plug 1	
From Depth (ft):	
To Depth (ft):	
Plug Type :	N/A
Acids/Blends/Fluids :	
Plug: 75 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 15.3 (bbl) + 0.3 % of CFL-3 (Preblend), + 0.5 % of CFR-2 (Preblend), + 0.5 % of CaCl2 (Preblend), + 0.25 lb/sack of Polyflake (Preblend)	
Plug 2	
From Depth (ft):	
To Depth (ft):	
Plug Type :	N/A
Acids/Blends/Fluids :	
Plug: 110 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 22.5 (bbl) + 0.3 % of CFL-3 (Preblend), + 0.5 % of CFR-2 (Preblend), + 1 % of CaCl2 (Preblend), + 0.25 lb/sack of Polyflake (Preblend)	

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MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

Fluid & Cement Data					
Expected Cement Top:	---				
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water Based Mud	--	--	--	--	Oct 29, 2012 13:20



Pumping
Service Report

9156727

Units & Personnel

Units							
Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200577	PICKUP	3/4 Ton				11/21/12 21:00	11/22/12 01:35
740069	BODY JOB	C & A				11/21/12 21:00	11/22/12 01:35
746024	TRACTOR	Bulk				11/21/12 21:00	11/22/12 01:35

43
45

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Oswald, John	11/21/2012 21:00	11/22/2012 01:35		
Hill, Justin	11/21/2012 21:00	11/22/2012 01:35		
Power, Glen	11/21/2012 21:00	11/22/2012 01:35		
Flores, Joseph	11/21/2012 21:00	11/22/2012 01:35		
Kaelin, Eric	11/21/2012 21:00	11/22/2012 01:35		

Treatment Reports & Remarks

Volume To Formation	
Stage/Plug/Treatment Interval Name	Volume To Formation (bbl)
Plug1	--
Plug2	--



Pumping
Service Report

9156727

Treatment Reports & Remarks

Treatment Report								
Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Nov 21,2012 21:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 21,2012 21:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 21,2012 21:07	JSA	---	--	--	--	--	0.00
Remarks: Watch out for slips, trips, falls, pinch points, use teamwork, wear proper PPE.								
4	Nov 21,2012 21:10	Rig In	---	--	--	--	--	0.00
5	Nov 21,2012 22:15	Safety Meeting	---	--	--	--	--	0.00
6	Nov 21,2012 22:20	Sign-off on Safety	---	--	--	--	--	0.00
7	Nov 21,2012 22:35	Pressure Test	Water Based Mud	--	--	--	--	0.00
Remarks: Tested lines to 2000 psi.								
8	Nov 21,2012 22:38	Pump Preflush	Water Based Mud	4.00	100.0	--	20.00	20.00
Remarks: Preflush - water with gel and polyflake.								
9	Nov 21,2012 22:48	Mix Cement	0-1-0 G	3.00	150.0	--	15.30	35.30
10	Nov 21,2012 22:55	Pump Spacer	Water Based Mud	3.00	100.0	--	7.00	42.30
Remarks: Fresh water spacer.								
11	Nov 21,2012 22:57	Pump Displacement	Water Based Mud	3.00	50.0	--	45.00	87.30
12	Nov 21,2012 23:12	Pump Displacement	Water Based Mud	2.50	50.0	--	14.00	101.30
13	Nov 21,2012 23:17	Stop	---	--	20.0	--	--	101.30
14	Nov 21,2012 23:20	Pull Pipe	---	--	--	--	--	101.30
15	Nov 21,2012 00:01	Pump Preflush	Water Based Mud	4.00	100.0	--	20.00	20.00
Remarks: Water with gel and polyflake.								
16	Nov 21,2012 00:09	Mix Cement	0-1-0 G	4.00	100.0	--	22.50	42.50
17	Nov 21,2012 00:16	Pump Spacer	Water Based Mud	3.00	50.0	--	7.00	49.50
18	Nov 21,2012 00:18	Pump Displacement	Water Based Mud	3.00	50.0	--	40.00	89.50
19	Nov 21,2012 00:32	Pump Displacement	Water Based Mud	2.00	30.0	--	12.00	101.50
20	Nov 21,2012 00:38	Stop	---	--	--	--	--	101.50
21	Nov 21,2012 00:40	Rig Out	---	--	--	--	--	0.00
22	Nov 21,2012 01:20	Job Complete	---	--	--	--	--	0.00
23	Nov 21,2012 01:30	Pre-Departure Meeting	---	--	--	--	--	0.00
24	Nov 21,2012 01:35	Leave Location	---	--	--	--	--	0.00



Treatment Reports & Remarks

Did Float Hold: Not Applicable

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : -

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

2277



**Pumping
Service Report**

9159051

Client Name Vecta Oil and Gas	Well Name #1 Heberle 33-28	Job Date November 28, 2012	Call Sheet 1016500
Client Representative Mr. Dan Friend	Location 32E Sec 28: T7N: R73W	Job Type 2-Stage Production	

Well Profile

Maximum Treating Pressure (psi):	---
Predicted Bottom Hole Static Temperature (°F):	180.00 @ --
Bottom Hole Circulating Temperature (°F):	--- @ --
Bottom Hole Logged Temperature (°F):	--- @ --

Open Hole						
Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)	
7.875	--	0.000	6,200.000	--	--	

Drill Pipe								
Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
4.500	16.600	X	12,750.000	73.230	3.826	6.250	0.000	5,150.000 6132

Per Dick Pate

Products

<p>Stage 1</p> <p>From Depth (ft):</p> <p>To Depth (ft):</p> <p>Acids/Blends/Fluids:</p> <p>Lead 1: 160 Sacks of WBL II, Density = 11.5 lb/gal, Volume Pumped = 63 (bbl) Water Temperature(°F) = 40, Bulk Temperature(°F) = 40, Slurry Temperature(°F) = 43 + 1.5 lb/sack of PS Flake (Preblend), + 0.2 % of CDF-4P (Preblend), + 0.25 % of CFL-4 (Preblend), + 0.5 % of CFR-2 (Preblend)</p> <p>Tail: 180 Sacks of 1-1-0 G, Density = 14.9 lb/gal, Volume Pumped = 35 (bbl) Water Temperature(°F) = 40, Bulk Temperature(°F) = 40, Slurry Temperature(°F) = 45 + 0.3 % of CFR (Preblend), + 0.8 % of CFL-2 (Preblend), + 0.4 % of CDF-4P (Preblend), + 0.4 % of LWA (Preblend)</p>	<p>RECEIVED</p> <p>JAN 1 1 2013</p> <p>MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS</p>
<p>Stage 2</p> <p>From Depth (ft):</p> <p>To Depth (ft):</p> <p>Acids/Blends/Fluids:</p> <p>Tail: 240 Sacks of WBL II, Density = 11.5 lb/gal, Volume Pumped = 92.8 (bbl) Water Temperature(°F) = 35, Bulk Temperature(°F) = 35, Slurry Temperature(°F) = 39 + 1.5 lb/sack of PS Flake (Preblend), + 0.2 % of CDF-4P (Preblend), + 0.25 % of CFL-4 (Preblend), + 0.5 % of CFR-2 (Preblend)</p>	

Fluid & Cement Data

Expected Cement Top:	--				
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water Based Mud	--	--	--	--	Oct 29, 2012 13:20



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JAN 11 2013

Pumping Service Report

9159051

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

Units & Personnel

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
201009	PICKUP	3/4 Ton				11/28/12 08:00	11/29/12 04:00
250109	PICKUP	1/2 Ton				11/28/12 08:00	11/29/12 04:00
745030	TRACTOR	Twin	43 445030	TRAILER	Twin	11/28/12 08:00	11/29/12 04:00
746117	TRACTOR	Bulk	43 446117	TRAILER	Bulker	11/28/12 08:00	11/29/12 04:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Wilcox, Kevin	11/28/2012 08:00	11/29/2012 04:00		
Hart, Jeremy	11/28/2012 08:00	11/29/2012 04:00		
Schultz, Derek	11/28/2012 08:00	11/29/2012 04:00		
Marks, Justin	11/28/2012 08:00	11/29/2012 04:00		
Dunkel, Aaron	11/28/2012 08:00	11/29/2012 04:00		

Treatment Reports & Remarks

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Nov 28,2012 12:00	Arrive On Location	---	--	--	--	--	0.00
2	Nov 28,2012 12:05	Tailgate Meeting	---	--	--	--	--	0.00
3	Nov 28,2012 15:00	Rig In	---	--	--	--	--	0.00
4	Nov 28,2012 16:15	Safety Meeting	---	--	--	--	--	0.00
5	Nov 28,2012 16:30	Sign-off on Safety	---	--	--	--	--	0.00
6	Nov 28,2012 16:33	Pressure Test	---	--	2,000.0	--	--	0.00
7	Nov 28,2012 16:34	Pump Preflush	---	4.00	100.0	--	10.00	10.00
		Remarks: Fresh Water						
8	Nov 28,2012 16:36	Pump Preflush	---	4.00	150.0	--	10.00	20.00
		Remarks: Mudflush						
9	Nov 28,2012 16:37	Pump Preflush	---	4.00	100.0	--	5.00	25.00
		Remarks: Fresh Water						
10	Nov 28,2012 16:38	Mix Cement	WBL II	5.00	150.0	--	63.00	88.00
		Remarks: Lead Cement mixed at 11.5 #						
11	Nov 28,2012 16:51	Mix Cement	1-1-0 G	4.00	100.0	--	34.50	122.50
		Remarks: Tail Cement mixed at 14.9 #						
12	Nov 28,2012 17:10	Stop	---	--	--	--	--	122.50
		Remarks: Drop plug						
13	Nov 28,2012 17:11	Displace Fluid	---	4.00	100.0	--	139.50	262.00
		Remarks: Bumped plug 500 over						
14	Nov 28,2012 17:53	Bump Plug	---	--	1,000.0	--	--	262.00
		Remarks: Held for 1 minute bleed back and checked the floats						
15	Nov 28,2012 18:00	Stop	---	--	--	--	--	262.00
		Remarks: Dropped bomb for stage tool						
16	Nov 28,2012 18:10	Pump	Water Based Mud	1.00	1,000.0	--	0.50	262.50
		Remarks: Pressured up and broke back as expected						

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Pumping Service Report

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

9159051

Treatment Report								
Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
17	Nov 28,2012 18:11	Pump	Water Based Mud	5.50	200.0	--	20.00	282.50
Remarks: Circulated 20 bbls of mud and then turned over to rig to Circulate for 8 hrs.								
18	Nov 28,2012 18:20	Stop	---	--	--	--	--	282.50
Remarks: Waiting 8 hrs. per proposal and customer for 2nd stage!!!!								
19	Nov 29,2012 02:00	Pressure Test	---	--	2,000.0	--	--	0.00
20	Nov 29,2012 02:02	Pump Preflush	---	4.00	100.0	--	10.00	10.00
Remarks: Fresh Water								
21	Nov 29,2012 02:05	Pump Preflush	---	4.00	100.0	--	10.00	20.00
Remarks: Mudflush								
22	Nov 29,2012 02:08	Pump Preflush	---	4.00	100.0	--	5.00	25.00
Remarks: Fresh Water								
23	Nov 29,2012 02:10	Mix Cement	WBL II	6.00	200.0	--	102.00	127.00
Remarks: Lead Cement mixed at 11.5 #								
24	Nov 29,2012 02:38	Drop Plug	---	--	--	--	--	127.00
25	Nov 29,2012 02:40	Pump Displacement	---	6.00	200.0	--	103.00	230.00
26	Nov 29,2012 03:00	Bump Plug	---	--	1,100.0	--	--	230.00
Remarks: Bumped plug 800 psi over as per proposal								
27	Nov 29,2012 03:20	Rig Out	---	--	--	--	--	230.00
28	Nov 29,2012 03:45	Pre-Departure Meeting	---	--	--	--	--	230.00
Remarks: Drive safe speeds, fatigue, road conditions and wildlife								
29	Nov 29,2012 03:55	Job Complete	---	--	--	--	--	230.00
30	Nov 29,2012 04:00	Leave Location	---	--	--	--	--	230.00

Did Float Hold: Yes
 Fluid Returns : Not Expected
 Type :
 Volume (bbl) :
 Temperature (°F) : --
 FDAS Functioning Correctly : Yes
 Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number
 Material Transfer Sheet Number
 30524



**Pumping
Service Report**

9156730

Client Name Vecta Oil and Gas	Well Name Heberle 33-28	Job Date December 18, 2012	Call Sheet 1017344
Client Representative Mr. John Hobart	Location Sec 28:T7N:R32E	Job Type Acid Squeeze	

Well Profile

Maximum Treating Pressure (psi):	—
Predicted Bottom Hole Static Temperature (°F):	175.00 @ —
Bottom Hole Circulating Temperature (°F):	— @ —
Bottom Hole Logged Temperature (°F):	— @ —

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.875	6.500	J-55	7,680.000	—	2.441	3.668	—	—

Products

Treatment Interval 1

From Depth (ft): 0
To Depth (ft):

Acids/Blends/Fluids:

- Treatment Acid: 1000 gal of 15% HCl
- + 9 gal/Mgal of AI-7 (Preblend),
- + 6 gal/Mgal of S-101 (Preblend),
- + 50 lb/Mgal of ICA-7 (Preblend),
- + 1 gal/Mgal of DF-1 (water and acids) (Preblend),
- + 4 gal/Mgal of ASA-3 (Preblend),
- + 2 gal/Mgal of D-2 (Preblend)

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Fluid & Cement Data

Expected Cement Top: —

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	—	—	—	—	Oct 29, 2012 13:20

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200577	PICKUP	3/4 Ton				12/18/12 08:00	12/18/12 11:40
743001	TRACTOR	Acid	443001	TRAILER	Acid	12/18/12 08:00	12/18/12 11:40
746904	TRACTOR	Transport-Acid	446904	TRAILER	Transport-Acid	12/18/12 08:00	12/18/12 11:40

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Oswald, John	12/18/2012 08:00	12/18/2012 11:40		
Merkel, Scott	12/18/2012 08:00	12/18/2012 11:40		
Beagley, Paul	12/18/2012 08:00	12/18/2012 11:40		
Flores, Joseph	12/18/2012 08:00	12/18/2012 11:40		
Lowry, Christopher	12/18/2012 08:00	12/18/2012 11:40		

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**Pumping
Service Report
9156730**

Treatment Reports & Remarks

Volume To Formation

Stage/Plug/Treatment Interval Name Volume To Formation (bbl)

Treatment Interval1 -

Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Dec 18,2012 08:00	Arrive On Location	--	-	-	-	-	0.00
2	Dec 18,2012 08:00	Tailgate Meeting	--	-	-	-	-	0.00
3	Dec 18,2012 08:02	JSA	--	-	-	-	-	0.00
Remarks: Wear proper PPE, Use teamwork, Watch out for slips, trips, falls, pinch points, acid leaks.								
4	Dec 18,2012 08:05	Rig In	--	-	-	-	-	0.00
5	Dec 18,2012 09:05	Safety Meeting	--	-	-	-	-	0.00
6	Dec 18,2012 09:07	Sign-off on Safety	--	-	-	-	-	0.00
7	Dec 18,2012 09:18	Pump	Water	1.00	-	1,000.0	13.00	0.00
Remarks: Filled backside, pressured up to 1000 psi to check packer.								
8	Dec 18,2012 09:44	Pressure Test	Water	-	-	-	-	0.00
Remarks: Tested hard lines to 3000 psi.								
9	Dec 18,2012 09:48	Pump	15% HCl	1.00	75.0	-	22.50	22.50
Remarks: Pumped acid to packer.								
10	Dec 18,2012 10:06	Stop	--	-	-	-	-	22.50
Remarks: Set packer.								
11	Dec 18,2012 10:08	Pump	15% HCl	1.00	2,200.0	-	1.30	23.80
Remarks: Pumped remaining acid.								
12	Dec 18,2012 10:10	Pump Displacement	Water	1.00	885.0	-	24.00	47.80
Remarks: Pressure started at 2200, dropped to 600 then climbed to 885.								
13	Dec 18,2012 10:34	Stop	--	-	700.0	-	-	47.80
Remarks: ISIP-700 psi.								
14	Dec 18,2012 10:39	Stop	--	-	450.0	-	-	47.80
Remarks: 5 minute pressure check- 450 psi.								
15	Dec 18,2012 10:44	Stop	--	-	370.0	-	-	47.80
Remarks: 10 minute pressure check- 370 psi								
16	Dec 18,2012 10:49	Stop	--	-	310.0	-	-	47.80
Remarks: 15 minute pressure check- 310 psi.								
17	Dec 18,2012 11:05	Rig Out	--	-	-	-	-	0.00
18	Dec 18,2012 11:30	Job Complete	--	-	-	-	-	0.00
19	Dec 18,2012 11:35	Pre-Departure Meeting	--	-	-	-	-	0.00
20	Dec 18,2012 11:40	Leave Location	--	-	-	-	-	0.00

Did Float Hold: Not Applicable

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : -

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

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**Pumping
Service Report**

9156730

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

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Sanjel

December 13, 2012

Vecta Oil & Gas

575 Union Blvd Suite 208
Lakewood, CO 80202

Attention:

Mr. Dick Pate

Phone : (303) 550-4880

Email: dickpate@vecta-denver.com

#1 Heberle 33-28

Sec.28-T7N-R32E

Yellowstone County, Montana

1,000 gal 15% HCl Acid Procedure

Prepared by:

Luis Chavez

Sanjel USA, Denver

Cell: (303) 562-8089

Email: lchavez@sanjel.com

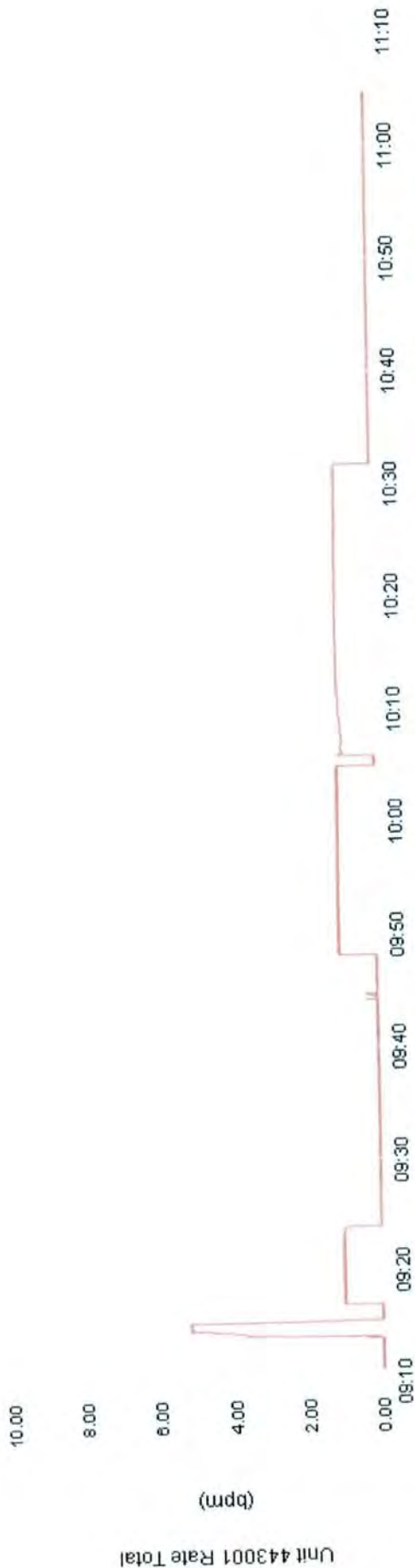
Service Location:

Miles City, MT

406.232.9800



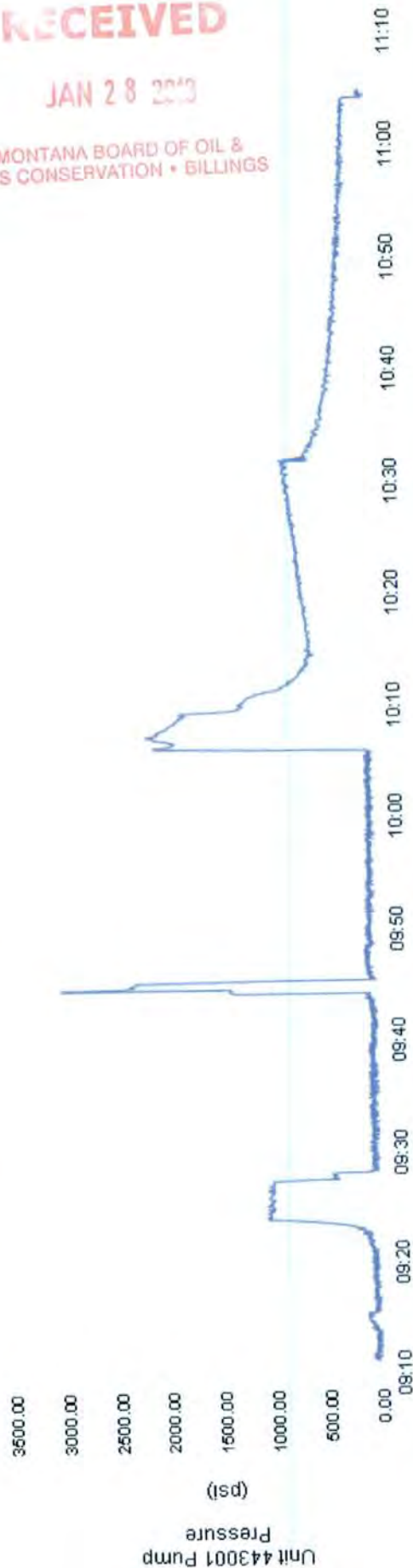
Client	Vecta Oil & Gas	Client Rep	Mr. John Hobart	Supervisor	Jack Oswald
Ticket No.	9156730	Well Name	Heberle 33-28	Unit No.	443001
Location	Sec.28:T7N:R32E	Job Type	Acid Squeeze	Service District	Miles City
Comments	Water, 15% HCl Acid			Job Date	12/18/2012



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WELL DATA

LOCATION: Yellowstone County
FORMATION: Amsden
PERFORATIONS: 6016 ft
TUBING: 2 7/8 inch
BHST: 175 °F

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**MONTANA BOARD OF OIL &
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RECOMMENDED BLENDS

1000 gal 15% HCl Blend

9 gal/1000	AI-7	Inhibitor
6 gal/1000	S-101	Surfactant
50 lbs/1000	ICA-7	Iron Control
1 gal/1000	DF-1	Defoamer
4 gal/1000	ASA-3	Antisludge Agent
2 gal/1000	D-2	Demulsifier

JOB PROCEDURE

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**MONTANA BOARD OF OIL &
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1. Move on Sanjel equipment.
 - Acid Pumper
 - Acid Transport
 - 1,000 gal 15% HCl
2. Rig in equipment to pump down tubing.
3. Perform safety and operational meeting with all personnel on location, detailing all procedures and pressure limitations.
4. Pressure test surface lines to 3,000 psi or limit set by customer representative.
5. Pump Schedule:
 - 1,000 gal of 15% acid blend, rate and pressure set by customer representative
 - Flush with Produced Water
6. Rig out Sanjel and evaluate

NOTE: *This recommendation is to be used as a guide. Job conditions and field experience must dictate job procedures. Please check all calculations on location.*

