

CHECK SHEET

Date: 8/6/2008 API Number: 005-23740
Company: Devon Energy Production Co., LP
Well Name: Bogges-DIR 2-12
County: Blaine
Field: Wildcat Blaine
Surf. Location: 2361 FNL 833 FWL SW NW Lot: Sec: 2 Twp: 25N Rng: 17E

Permit Number: 26971 Drilling Fee: _____

Intention to Drill: 8/5/2008 Expiration Date: 2/5/2009

Mineral Ownership: Private State Federal Indian

Well Type: Directional Multiple Laterals

Proposed Depth/Formation: MD: 2750 TVD: 2500 Eagle

Drilling Unit _____ Acres _____ Description: _____

Samples Required: _____ Received: _____

COMPLETION INFORMATION

Completion Date: September 8, 2008 TD: 2389 PBTD: 2285

Completed As: Gas Well IP / Formation: 180 MCFD Eagle

Geological Well Report: _____ Mud Log: _____

Sundry Notices: _____

Subsequent Report of Abandonment: Received: _____ Approved: _____

Electric Logs: GR Radial Bond Log / Dipole Sonic Imager / Sonic Down Log / 10-24-08

Miscellaneous: Directional Survey / 10-24-08

PLAINTIFFS' EXHIBIT
P271

LOCATE WELL CORRECTLY

X			
o			

(SUBMIT IN TRIPLICATE)
TO

RECEIVED

ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013
ARM 36.22.1414

OCT 24 2008

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

MONTANA BOARD OF OIL
& GAS CONSERVATION
BILLINGS

COMPLETION REPORT

Company Devon Energy Production Company, L.P. Lease Boggess-DIR Well No. 2 - 12

Address 20 N. Broadway, Ste 1500, Oklahoma City, OK 73102 Field (or Area) Wildcat

The well is located 2361 ft. from N line and 833 ft. from W line of Sec. 2
N or S E or W

Sec. 2 ; T. 25N R. 17E County Blaine ; Elevation 3557' GL
(D.F., R.B. or G.L.)

Commenced drilling August 23, 2008 ; Completed September 8, 2008

Write the API# or the well name of another well on this lease if one exists NA

The information given herewith is a complete and correct record of the well. The summary on this page is for the condition of the well at the above date.

Completed as gas well Signed Patricia Dickers
(oil well, gas well, dry hole, cbm, injection)

API# 25 - 005-23740 Title Sr. Staff Operations Technician

Bottomhole Location(s): NWSW, 2423' FSL & 161' FWL, Sec 2, T25N, R17E Date October 23, 2008

IMPORTANT ZONES OF POROSITY (denote oil by O, gas by G, water by W: state formation if known)

From <u>803</u> to <u>853' (G) Judith River</u>	From <u>1057</u> to <u>1060' (G) Judith River</u>
From <u>894</u> to <u>904' (G) Judith River</u>	From <u>1128</u> to <u>1157' (G) Judith River</u>
From <u>1083</u> to <u>1087' (G) Judith River</u>	From <u>1181</u> to <u>1250' (G) Judith River</u>

CASING RECORD

Size Casing	Weight Per Ft.	Grade	Thread	Casing Set	From	To	Sack of cement	Cut And Pulled from
7"	17#	H-40	ST&C	205	0	205	126	
4-1/2"	10.5#	J-55	ST&C	2,362	0	2362	300	

TUBING RECORD

Size Tubing	Weight Per Ft.	Grade	Thread	Amount	Perforations
none					

COMPLETION RECORD

Rotary tools were used from Surface to Total Depth
Cable tools were used from _____ to _____
Total depth 2389 ft.; Plugged back to 2285 T.D.; Open hole from _____ to _____

PERFORATIONS			ACIDIZED, SHOT, SAND FRACED, CEMENTED			
Interval		Number and Size and Type	Interval		Amount of Material Used	Pressure
From	To		From	To		
<u>1,936</u>	<u>1951</u>	<u>6 spf</u>			<u>none</u>	
<u>1970</u>	<u>1980</u>	<u>6 spf</u>				
<u>1980</u>	<u>1990</u>	<u>6 spf</u>				

(if P&A show plugs above)

INITIAL PRODUCTION

Well is producing from Eagle (pool) formation.
I.P. _____ barrels of oil per _____ hours _____
(Pumping or flowing)
180 MCF of gas per 24 hours.
_____ barrels of water per _____ hours, or _____ % W.C.

FORM NO. 22 R7/99

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: **Bogges-DIR**
Lease Type (Private/State/Federal): **Private**

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Well Number: **2 - 12** **AUG - 5 2008**

Unit Agreement Name: **MONTANA BOARD OF OIL & GAS COMB. BILLINGS**

Field Name or Wildcat: **Wildcat**

Objective Formation(s): **Eagle Sandstone**

Section, Township, and Range: **Sec 2, T25N, R17E**

County: **Blaine**

Application for Permit
To: Drill Deepen Re-enter
Oil Gas Other

Operator: **Devon Energy Production Company, L.P.**
Address **20 N. Broadway, Suite 1500**
City **Okla. City** State **OK** ZIP **73102**
Telephone Number **405.228-4248; fax 405.228-4848**

Surface Location of Well (quarter-quarter section and footage measurements)
SWNW, 2361' FNL & 833' FWL, Sec 2, T25N, R17E
NWSW, 2510' FSL & 150' FWL, Sec 2, T25N, R17E, (PBHL)
Docket #248-2008, TSU = W/2 of Sec 2 & E/2 of Sec 3

(if directionally drilled, show both surface and bottom hole locations above)
Proposed total depth **2500' TVD/2750' TMD** Formation at total depth **Eagle** Elevation (indicate GL or KB) **3557' GL**

Size and description of drilling/spacing unit **640, see TSU above** API number of another well on this lease (if any) **NA** Anticipated spud date **August, 2008**

Hole size	Casing size	Weight/foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
9-7/8"	7"	17#	ST&C	150'	70	Class "G"
6-1/4"	4-1/2"	10.5#	LS	2500'	323	Class "G"

Describe Proposed Operations:
Describe or attach labeled diagram of blowout preventer equipment. Indicate if air drilled or describe mud program.
Drill a 9-7/8" hole to 150' and set 7", 17#/ft new surface casing. Cement will be circulated to surface.
Drill a 6-1/4" hole through the Eagle Sandstone to an approximate depth of 2500'. Run DIL/LDT/CNL open hole logs.
If commercial run 4-1/2", 10.5#/ft new production casing from the bottom of the productive interval and cement back to surface.

Only freshwater based fluid may be used when drilling surface hole Rule 36.22.1001

Saltwater Pits Shall Be Impermeable

BOARD USE ONLY
Approved (date) **AUG 05 2008** Permit Fee **\$2500**
By *Heidi P. ...* Check Number **1761984**
Title **CHIEF FIELD INSPECTOR** Permit Expires **FEB - 5 2009**
Permit Number **26971**
API Number 25- **005 - 23740**

The undersigned hereby certifies that the information contained on this application is true and correct:
Signed (Agent) *Patti ...*
Title **Sr. Staff Operations Technician**
Date **August 4, 2008**

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

SUPPLEMENTAL INFORMATION

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.

SUPPLEMENTAL INFORMATION

Lease Name & Well No.: Boggess-DIR 2-12-25-17
Location (Sec., Twp., Rge.): Section 2, T25N, R17E
Field Name or Wildcat: Wildcat

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- 4) Describe the type and amount of material or liner, if any, to be used to seal the reserve pit.

The reserve pit will not be liner.

Unlined earthen pits and fresh water gel mud system will be utilized.

- 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.

Truck pit fluids to Lessor's stock pond.

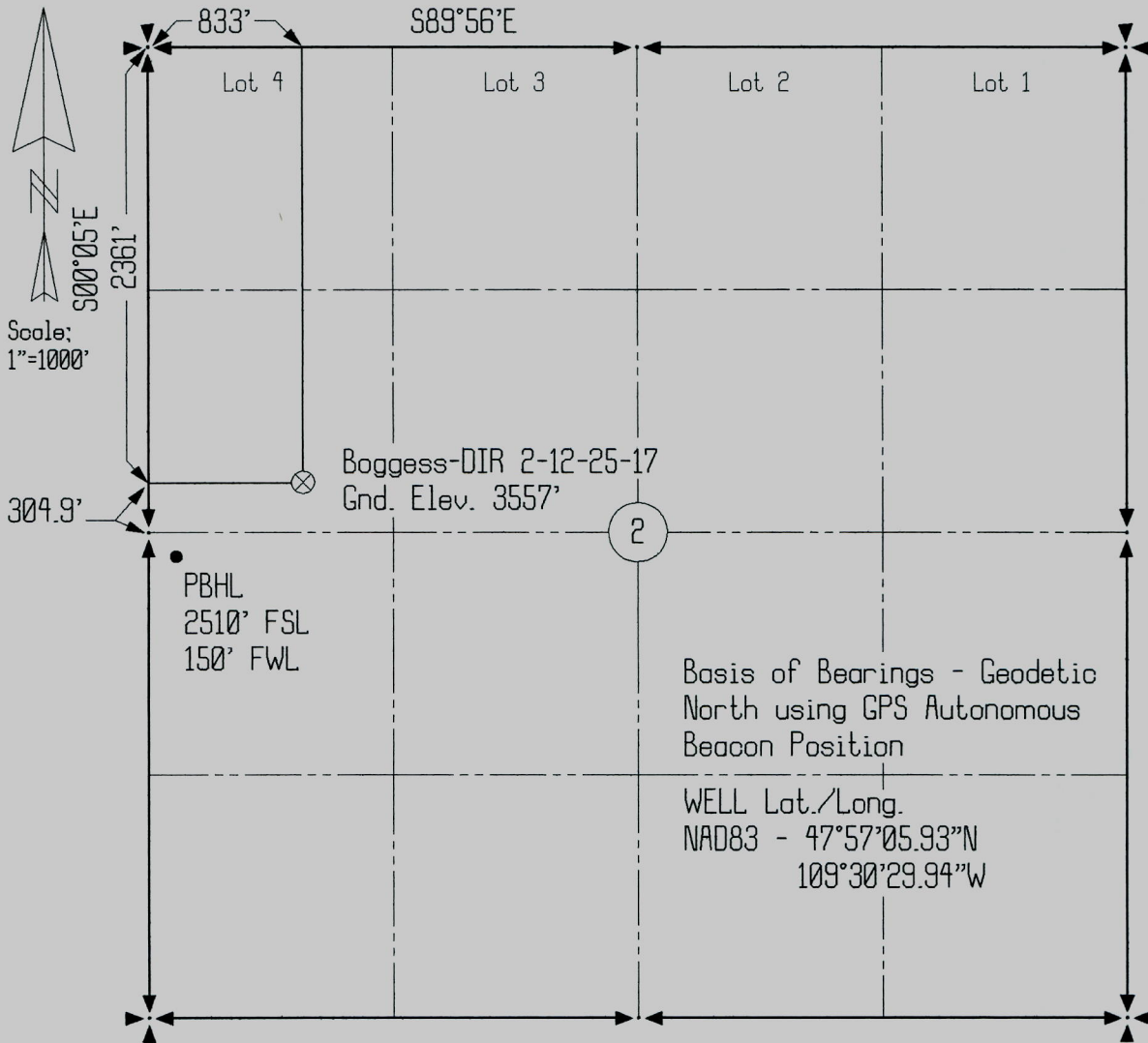
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WELL LOCATION PLAT
DEVON ENERGY CORPORATION
BOGGESS-DIR 2-12-25-17

2361 FEET FROM NORTH LINE & 833 FEET FROM WEST LINE
SECTION 2, T.25N., R.17E., P.M.M., BLAINE COUNTY, MONTANA



DIVERSIFIED SURVEYING SERVICES

P.O. Box 21, Havre, Montana

I, Ronald G. Turner, certify that this plat correctly represents work performed by me or under my responsible charge, and is true and correct to the best of my knowledge and belief.

Ronald G. Turner, Montana Registration No. 9096LS
Pt. on Hill SE1/4 NW1/4

Date 6-23-08 Basis of Vertical Datum Sec. 2 Elev. 3661'



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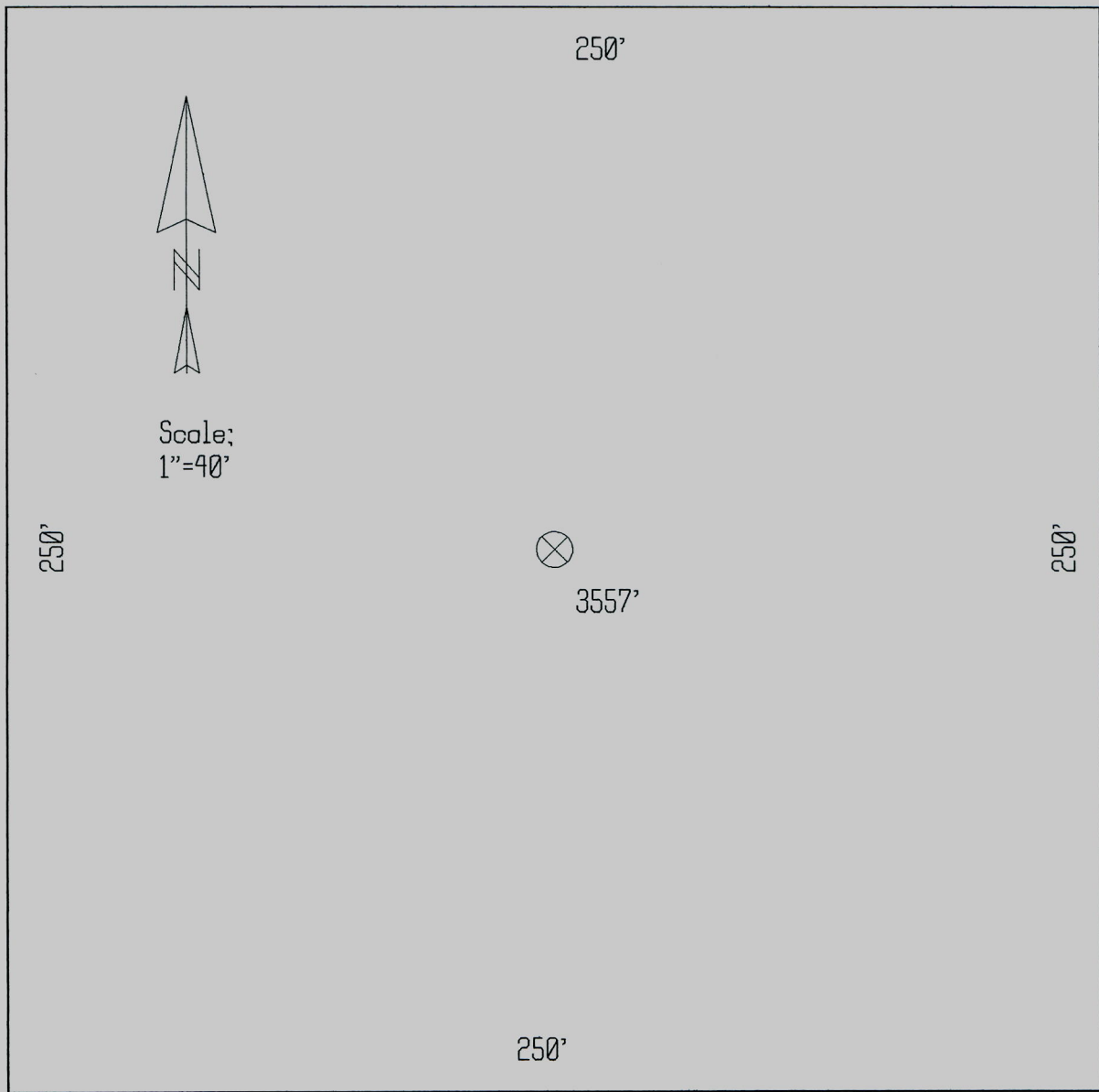
NOTES;

- 1) Pad size = 250' x 250'
- 2) Cut & Fills are relative to Wellhead Elevation

Bogges-DIR 2-12-25-17
SW1/4 NW1/4
Sec. 2, T.25N., R.17E., P.M.M.
Blaine County, Montana

F 1'

C 7'



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REDROCK

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GAS CONS. BILLINGS

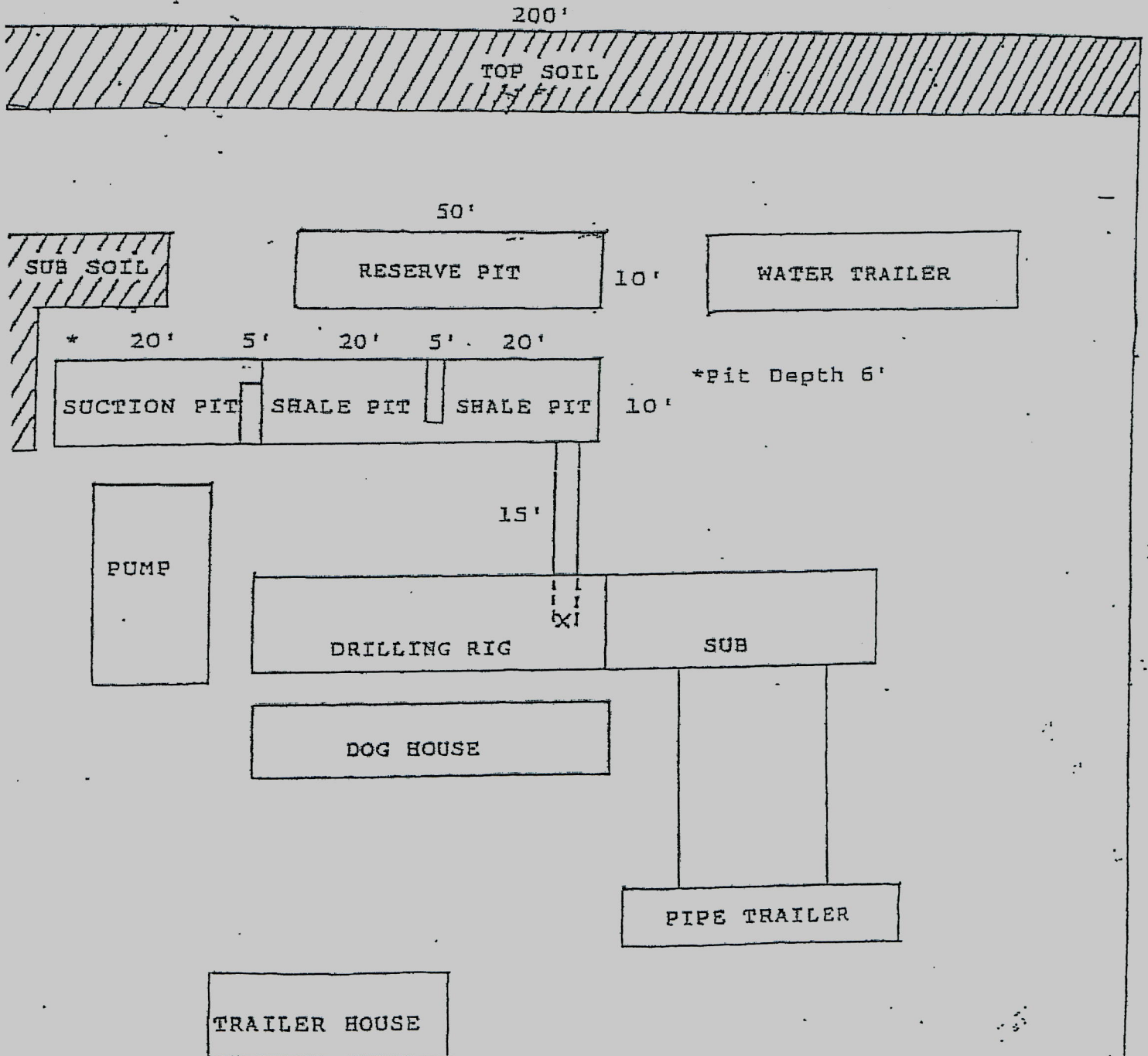
DRILLING COMPANY, LLC



P.O. Box
Havre, MT 591
Office: (406) 262-96
Fax: (406) 262-9

R I G L A Y O U T

FOR
MID
DRILLING



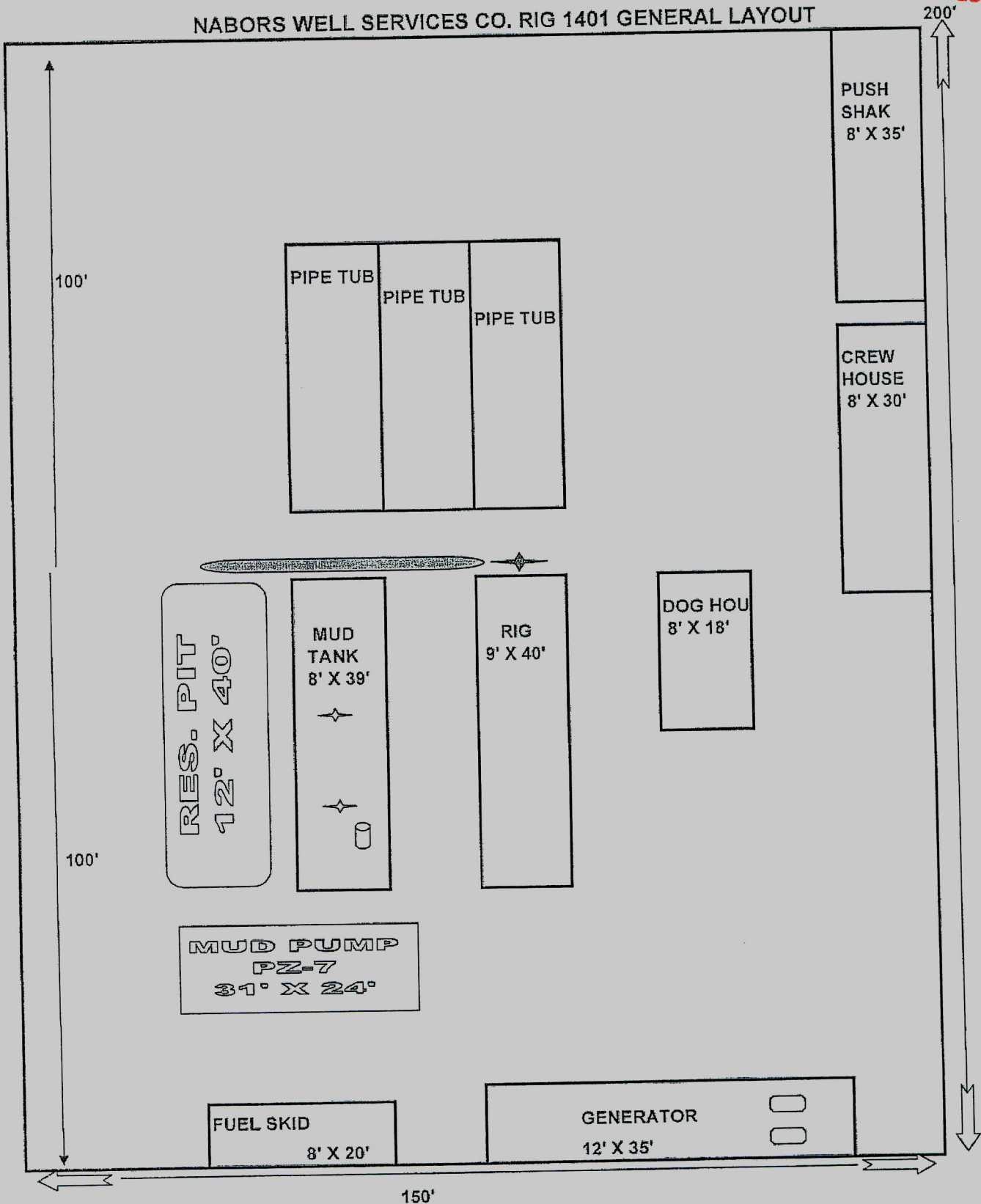
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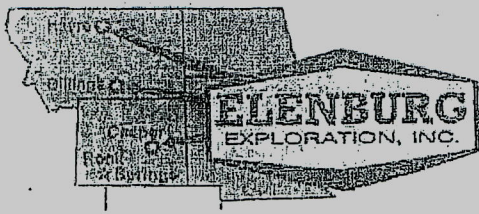
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NABORS WELL SERVICES CO. RIG 1401 GENERAL LAYOUT



ROTARY DRILLING WITH MUD & AIR SINCE 1966



Main Office
1910 N. Loop Ave.
P.O. Box 2440
Casper, Wyoming 82602
(307) 235-8609

Billings Office
2047 E. Main
Billings, Montana 59103
(406) 245-3511

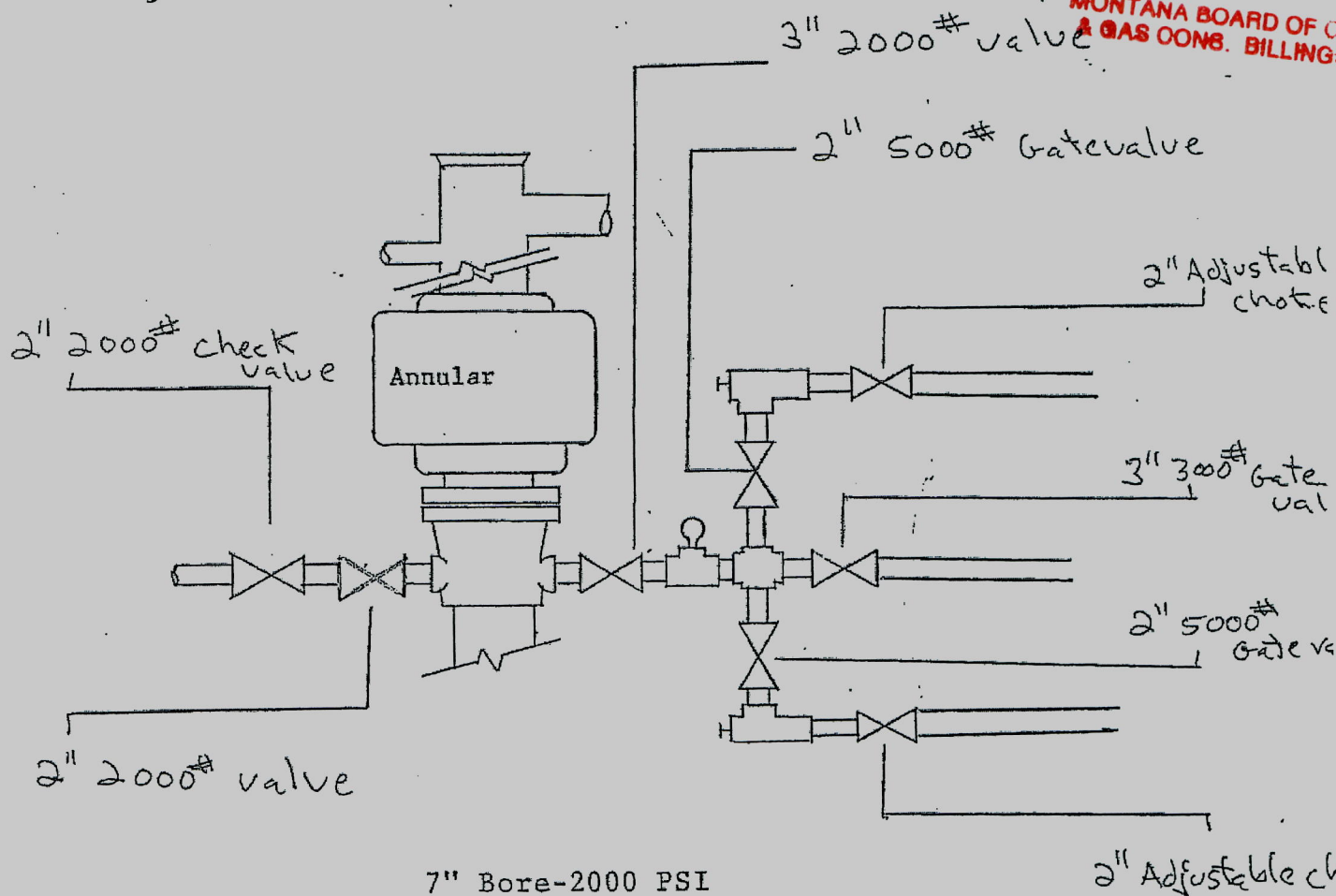
Havre, Montana Yard
4 mi. W. Hwy 2

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Rig #8



cellar

25"
↔

Rig Floor

42"
↑↓

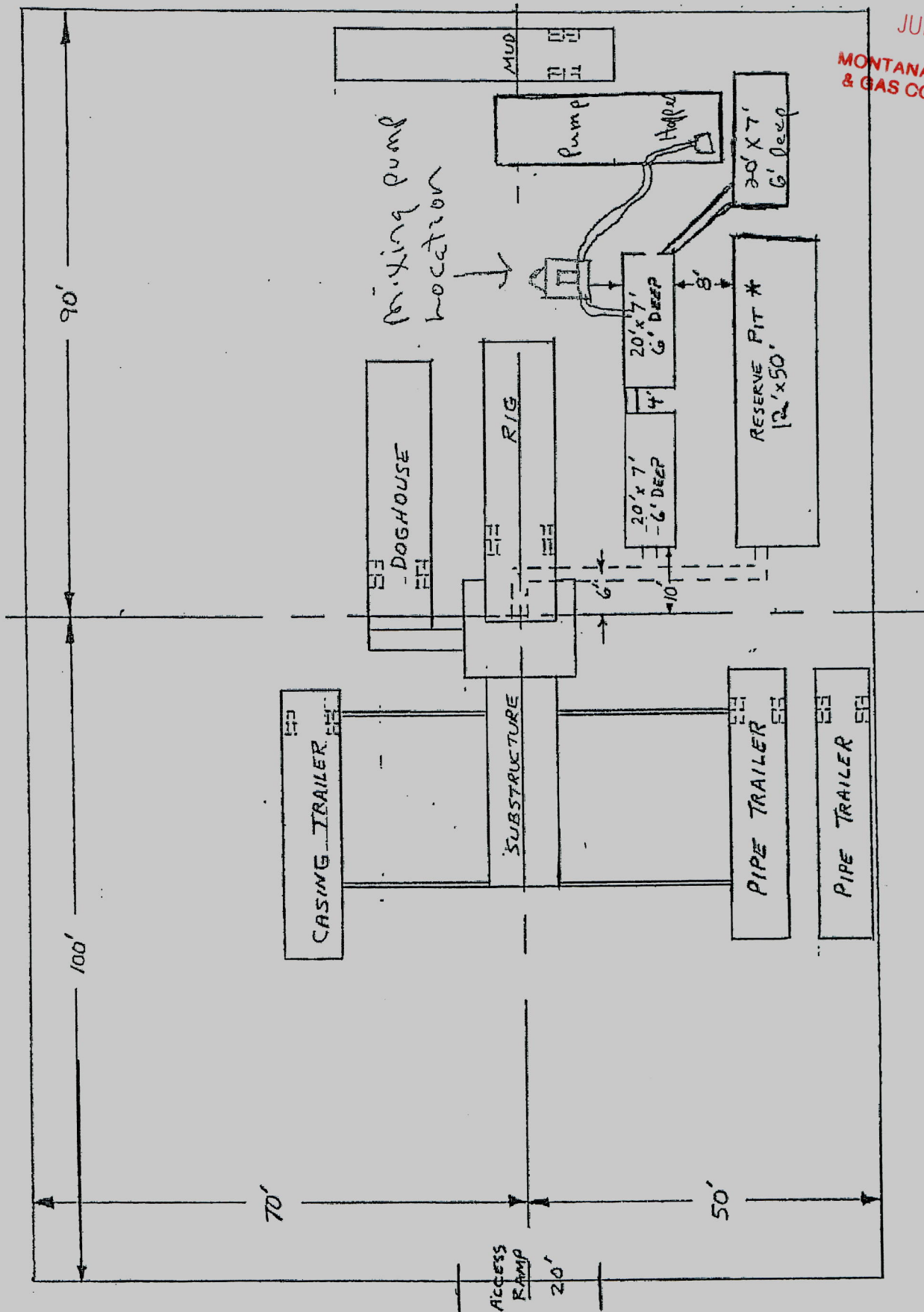
Sub pad

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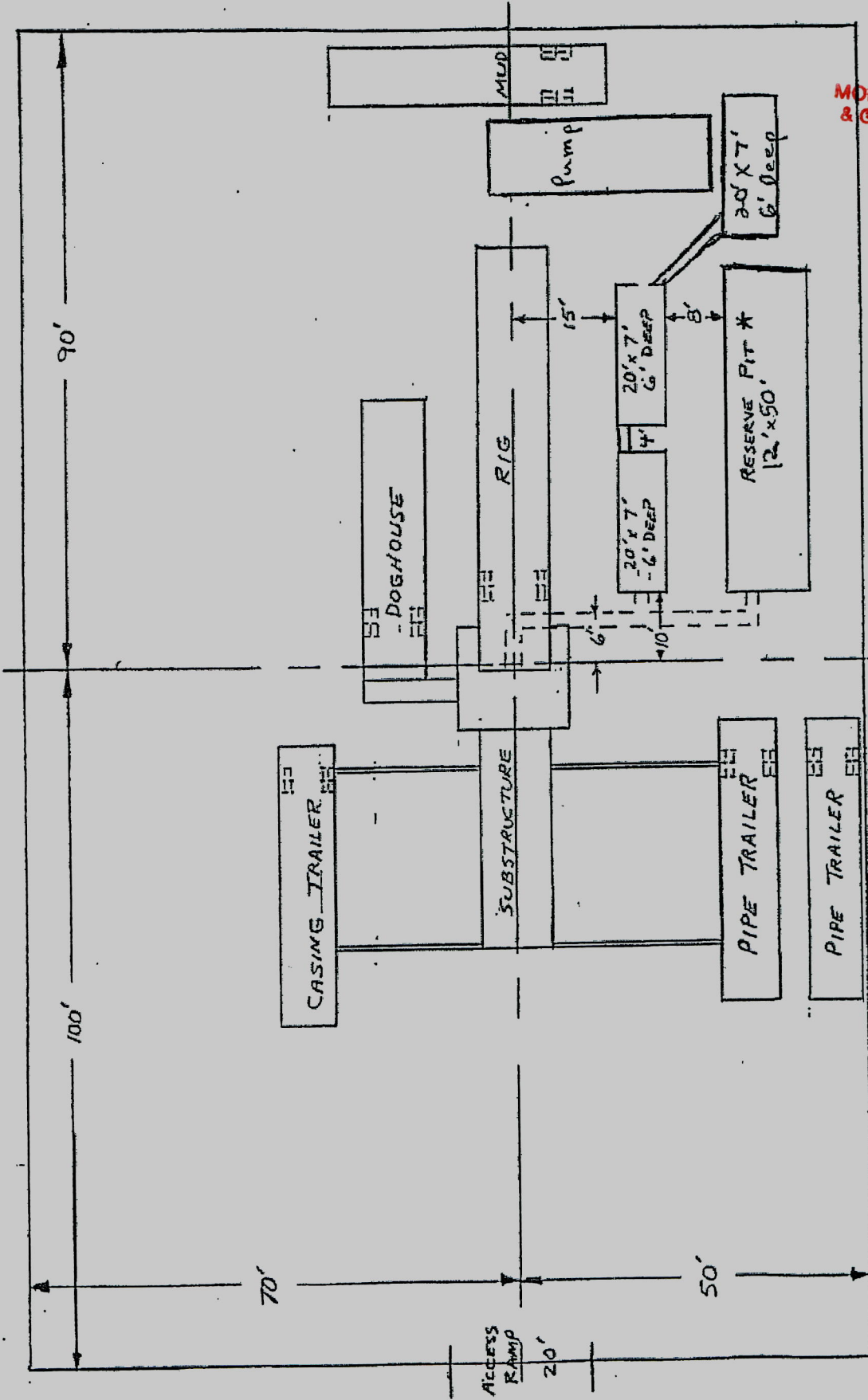
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Elenburg
Rig #8



LOCATION AND RIG LAYOUT FOR RIGS 2, 8, AND 10



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* RESERVE PIT
 1,000' - 1,500' 4' DEEP
 1,500' - 2,000' 6' DEEP
 ALL DITCHES 2' X 2'

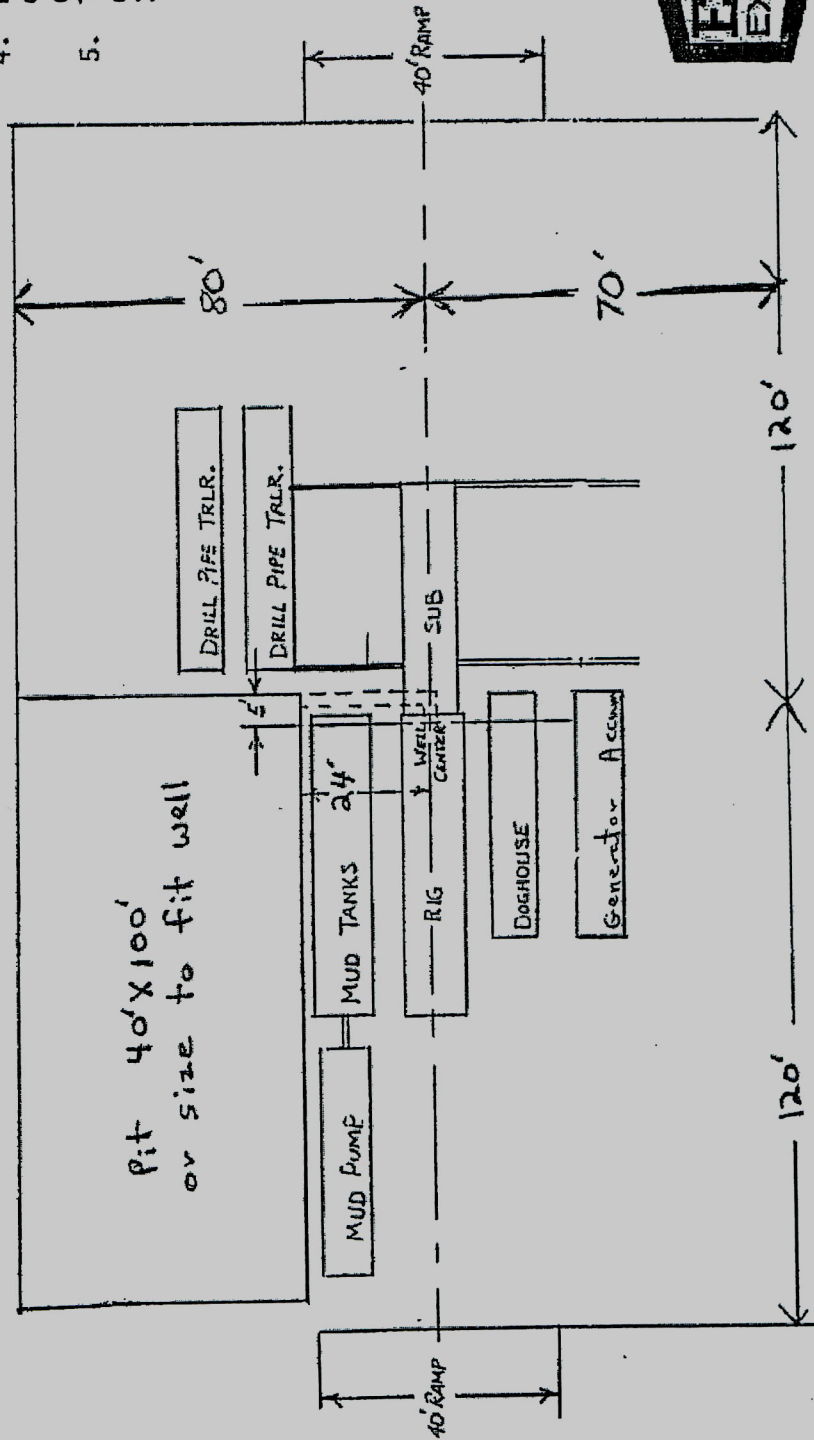


LOCATION AND RIG LAYOUT FOR RIG 10 with mud Tank

Soil Stockpile area

NOTES:

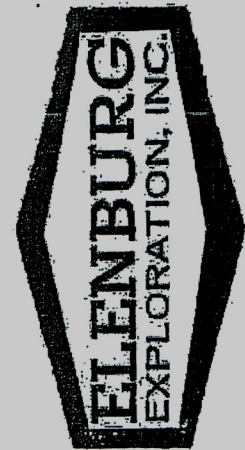
1. Make pits 6' deep.
2. Pits need to be in the cut.
3. Push up a divider in the middle of the pit shown.
4. Rip a 2' deep x 2' wide ditch as shown by the dotted line.
5. Truck access on each end of location 0° - 30°.



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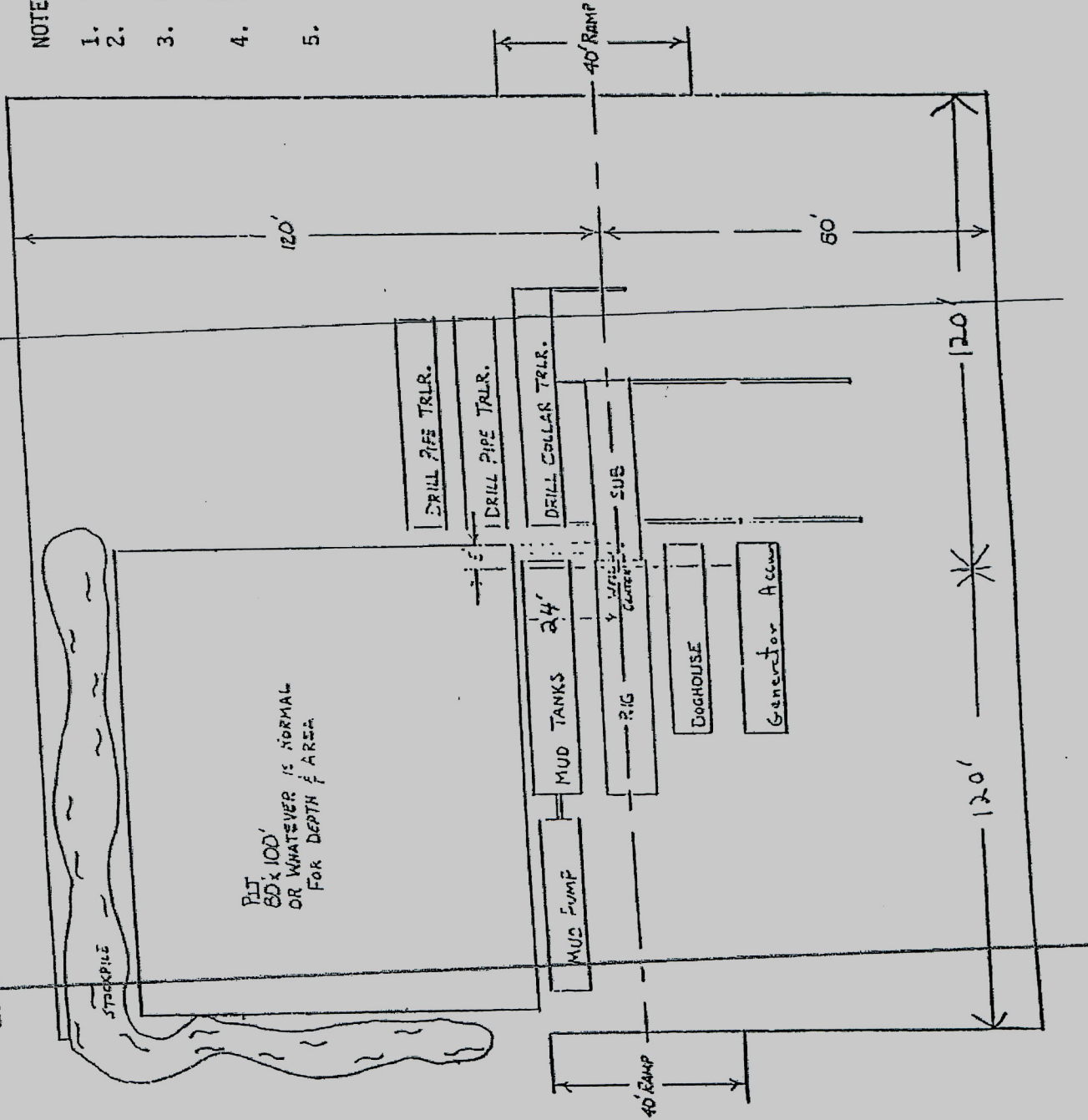
JUL 3 1 2008

MONTANA BOARD OF OIL & GAS COMB. BILLINGS



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LOCATION AND RIG LAYOUT FOR RIGS 11, 12, 14, AND 15



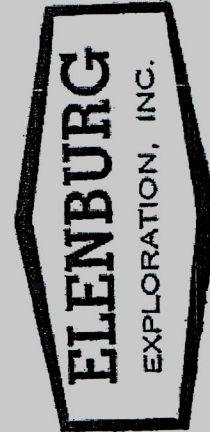
NOTES:

1. Make pits 6' deep.
2. Pits need to be in the cut.
3. Push up a divider in the middle of the pit shown.
4. Rip a 2' deep x 2' wide ditch as shown by the dotted line.
5. Truck access on each end of location 0° - 30°.

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FEDROCK DRILLING COMPANY, LLC

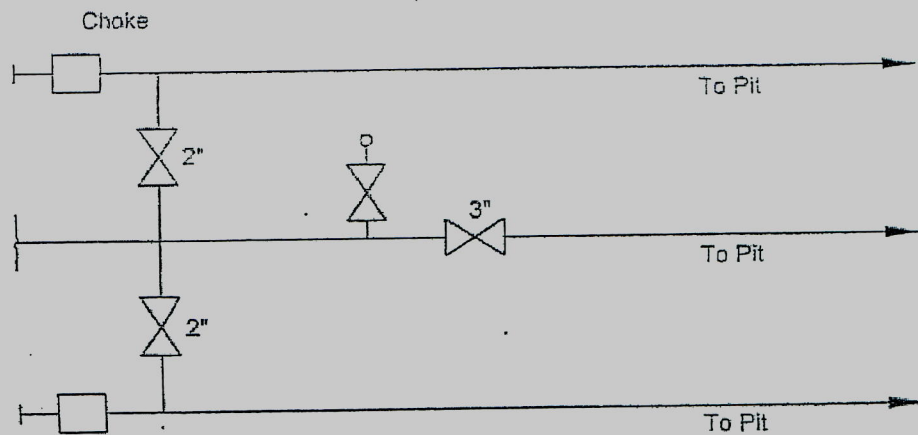
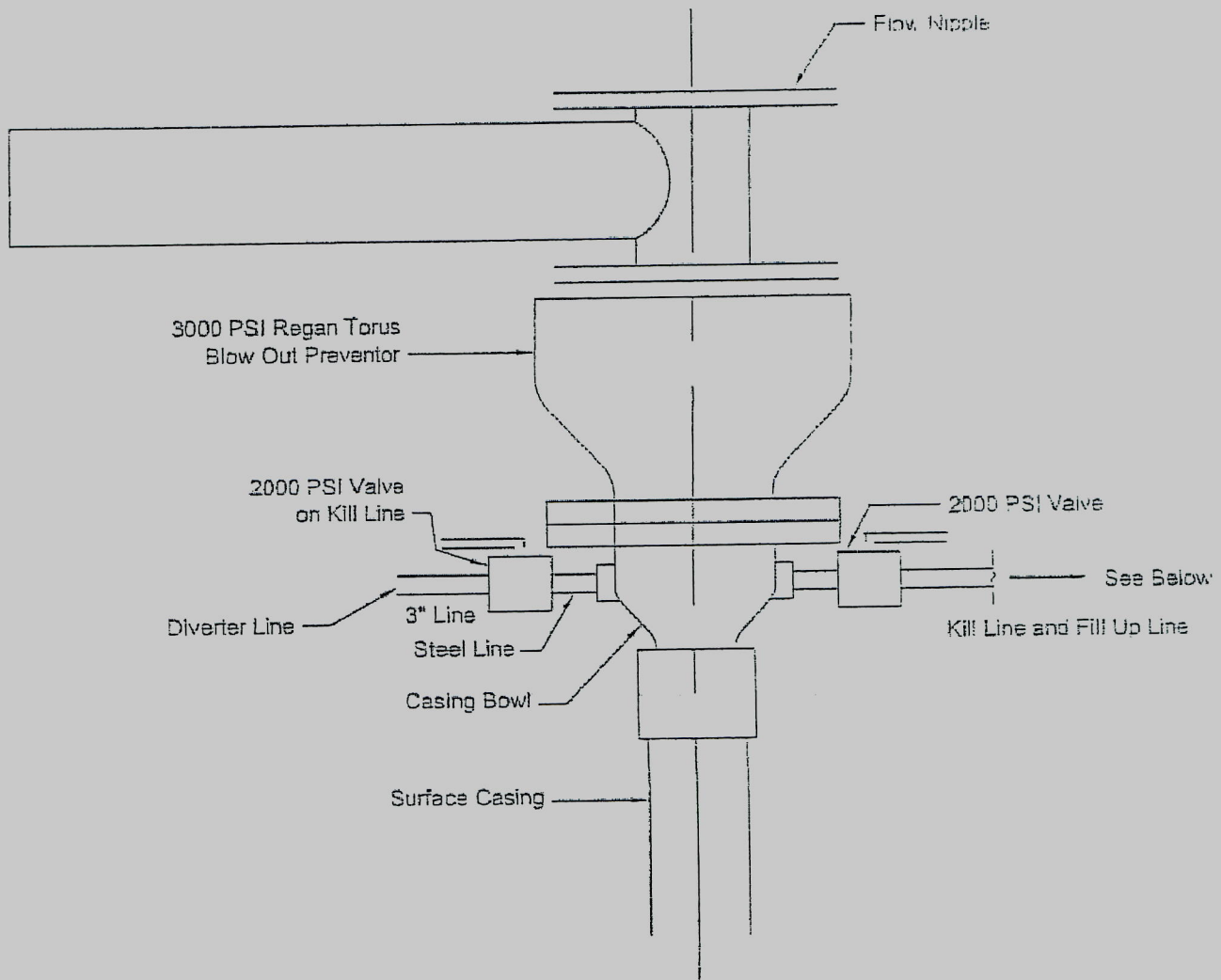
P.O. Box 41
Meyers, MT 59501
Office (406) 262-9911
Fax: (406) 262-9400

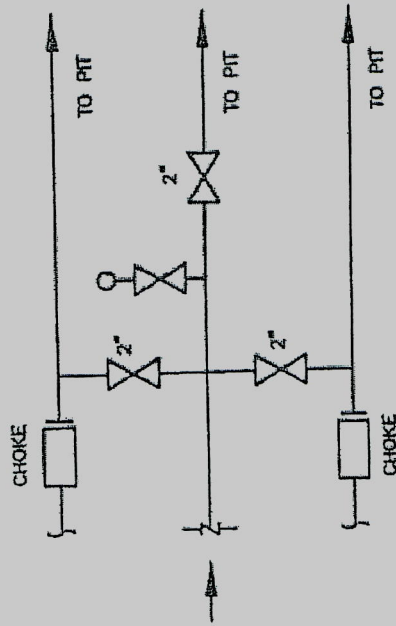
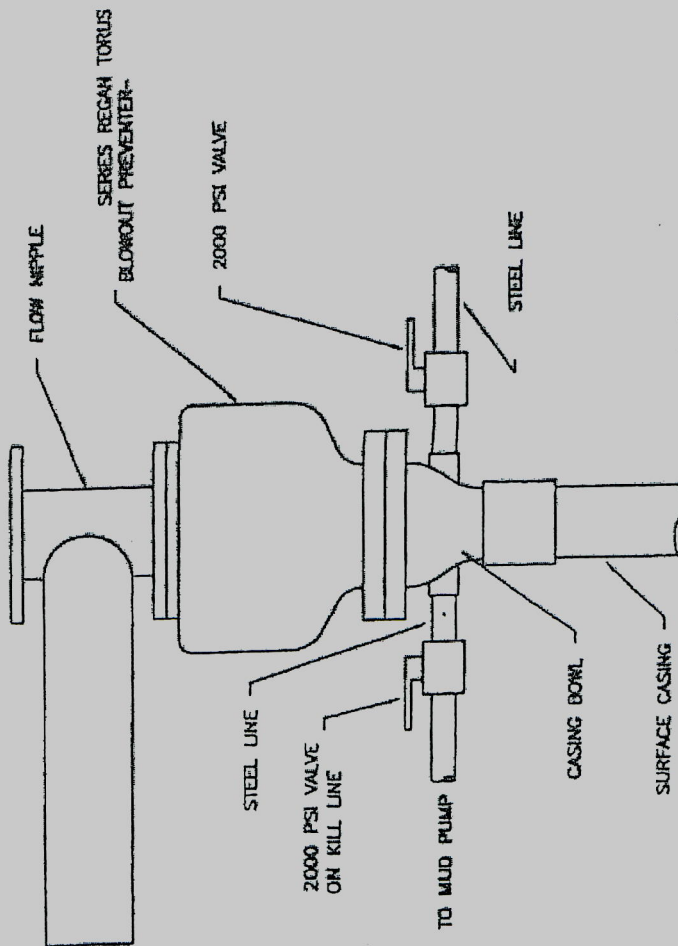
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B.O.P. Layout





NO.	DATE	BY	REVISION
3		JSE	REVISED NOTES
2		JSE	

B.O.P. LAYOUT & SCHEMATIC

DATE	DESIGNED BY	SCALE	COMP. NO.	DRAW. NO.	SHEET NO.

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 & GAS CONS. BILLINGS

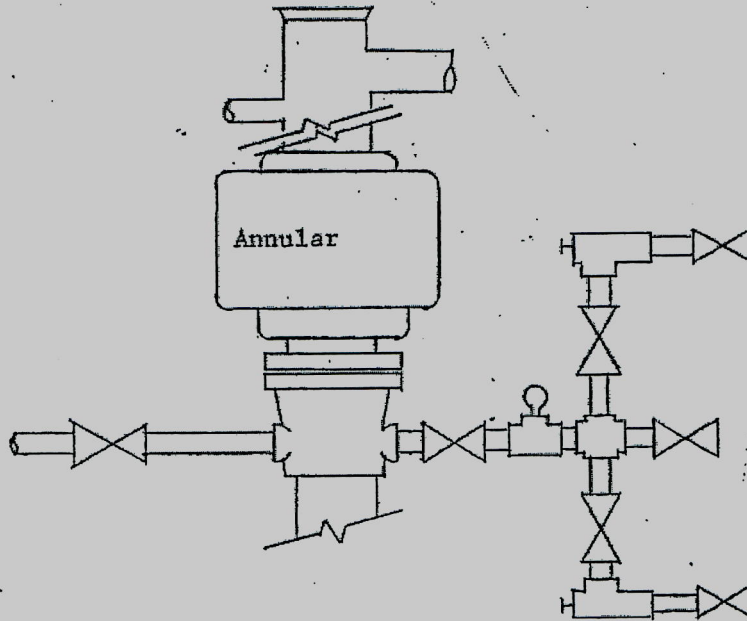


ROTARY DRILLING WITH MUD & AIR SINCE 1968

Main Office
1910 N. Loop Ave.
P.O. Box 2440
Casper, Wyoming 82602
(307) 235-8609

Billings Office
2047 E. Main
Billings, Montana 59103
(406) 245-3511

Havre, Montana Yard
4 mi. W. Hwy 2



7" Bore-2000 PSI
Blowout Preventer Stack

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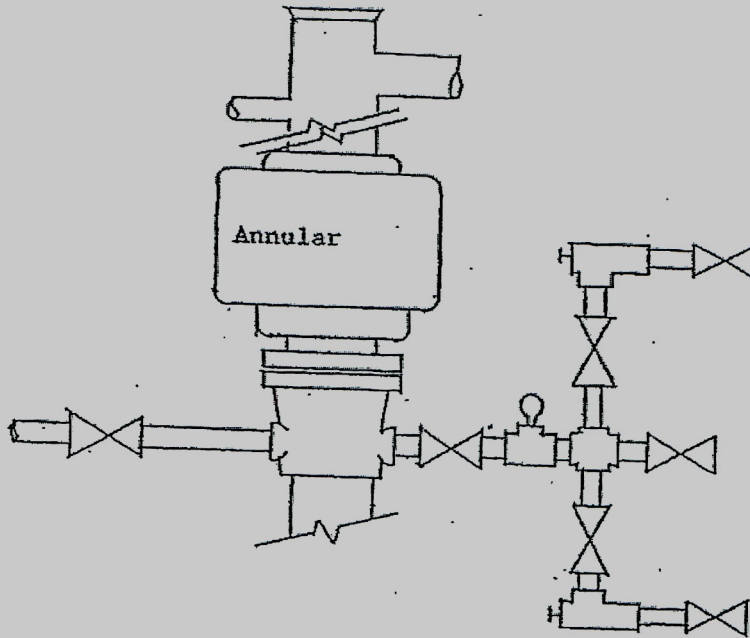


ROTARY DRILLING WITH MUD & AIR SINCE 1966

Main Office
1910 N. Loop Ave.
P.O. Box 2440
Casper, Wyoming 82602
(307) 235-8608

Billings Office
2047 E. Main
Billings, Montana 59103
(406) 245-3511

Havre, Montana Yard
4 mi. W. Hwy 2



9" Bore-2000 PSI
Blowout Preventer Stack

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**MONTANA BOARD OF OIL
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**Montana Board of Oil and Gas Conservation
Environmental Assessment**

Operator: Devon Energy Production Company, L.P.
Well Name/Number: Boggess-DIR No.2-12
Location: SW NW Section 2 T25N R17E
County: Blaine, **MT;** **Field (or Wildcat)** W/C

Air Quality

(possible concerns)

Long drilling time: No, 3 to 4 days
Unusually deep drilling (high horsepower rig): No, 2500' TVD/2750'TMD, small single derrick drilling rig.
Possible H2S gas production: No
In/near Class I air quality area: No
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required under rule 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 small rig to drill to 2500'TVD/2750'TMD.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater and freshwater mud system.
High water table: No
Surface drainage leads to live water: No, closest drainage is an unnamed ephemeral drainage to Sand Creek, about 1/8 of a mile to the south from this location.
Water well contamination: None, no water wells within 1 mile or further from this location.
Porous/permeable soils: No, sandy silty bentonitic soils.
Class I stream drainage: No

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: _____

Comments: 150' of surface casing cemented to surface adequate to protect freshwater zones. If productive, 4 1/2" casings will be run, casing will be cemented to surface. Also, fresh water mud systems to be used to drill this well.

Soils/Vegetation/Land Use

(possible concerns)

Stream crossings: None.
High erosion potential: No, small cut, up to 7.0' and small fill, up to 8.0', required.

Loss of soil productivity: No, location will be restored after drilling, in nonproductive. If productive unused portion of drillsite will be reclaimed.

Unusually large wellsite: No, 250'X250' location size required.

Damage to improvements: Slight, surface use is 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 _____

Comments: Access will be over existing county road, Cow Island Trail and existing ranch trails. About 1/4 of a mile of new access will be created to access this location off an existing trail. Cuttings will be disposed of in the unlined earthen pits. Drilling fluids will be trucked to nearby stock pond and disposed of with surface owner approval. Pit will be allowed to dry then backfilled. No special concerns

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: Residence about 1/2 of a mile to the northeast of this location.

Possibility of H2S: None

Size of rig/length of drilling time: Small drilling rig/short 2 to 3 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: No concerns

Wildlife/recreation

(possible concerns)

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

Proximity to recreation sites: Upper Missouri River Breaks National Monument boundaries about 11 miles east and 12 miles south of this location.

Creation of new access to wildlife habitat: No

Conflict with game range/refuge management: No

Threatened or endangered Species: None identified.

Mitigation:

Avoidance (topographic tolerance/exception)

Other agency review (DFWP, federal agencies, DSL)

Screening/fencing of pits, drillsite

Other: _____

Comments: Private surface lands. No concerns.

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 lands. No concerns.

Social/Economic

(possible concerns)

Substantial effect on tax base

Create demand for new governmental services

Population increase or relocation

Comments: No concerns

Remarks or Special Concerns for this site

Well is a 2500'TVD/2750'TMD directional Eagle Formation test south side of Bear Paw Mountains

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): Steven Sasaki 

(title:) Chief Field Inspector

Date: August 5, 2008

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website.

(Name and Agency)

Blaine County water wells

(subject discussed)

August 5, 2008

(date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

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SPUD INFORMATION

WELL NAME: Bogges- DIR 2-12

API #: 005-23740

LOCATION: S2 25N 17E SWNW
(Twp-Rge-Sec: $\frac{1}{4}$ $\frac{1}{4}$)

SPUD TIME: 4:20 pm Actual

DATE: 8-23-08

DRILLING COMPANY: Elenburg

RIG #: 10

CALLER'S NAME: Mick Arness

COMPANY NAME: Devon Energy Prod. Co., LP

OTHER: _____

005-23740^v



DEVON ENERGY CORPORATION

Field: Blaine County, MT
 Site: Boggess-DIR 02-12-25-17
 Well: 2-12-25-17
 Wellpath: Original Hole



Azimuths to True North
 Magnetic North: 12.77°
 Magnetic Field
 Strength: 56513nT
 Dip Angle: 72.20°
 Date: 7/23/2008
 Model: igr2005

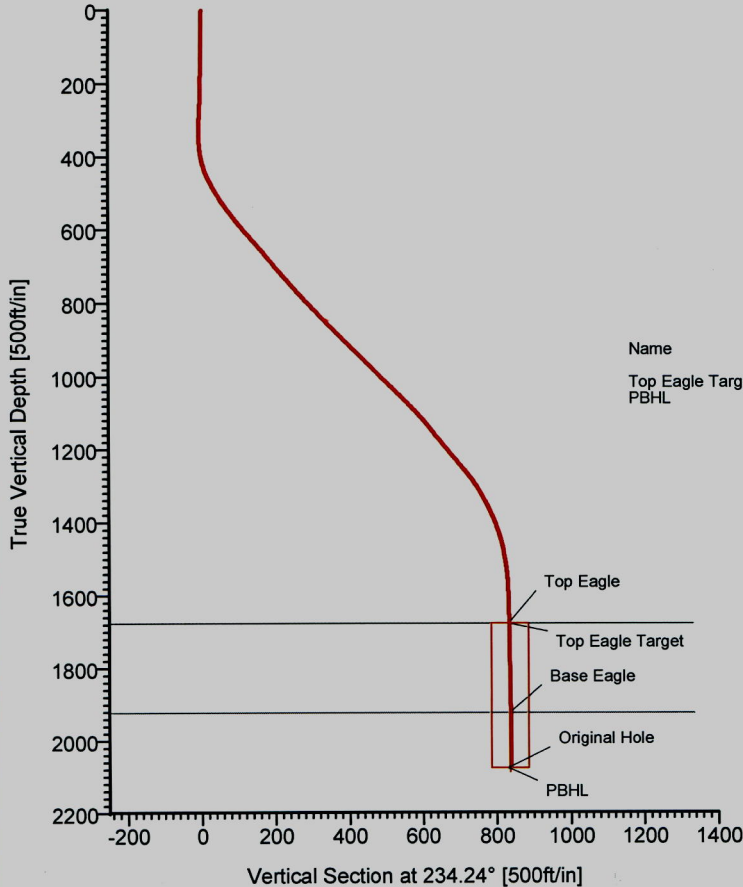
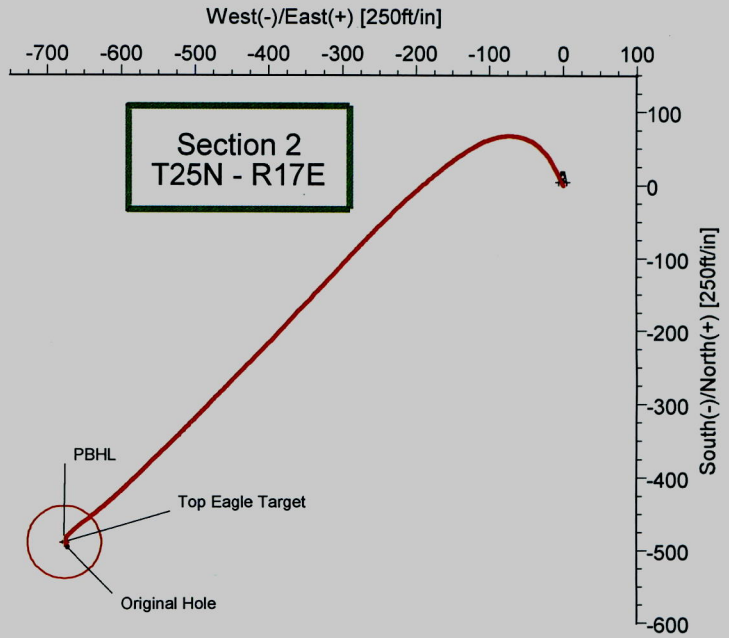
FIELD DETAILS

Blaine County, MT
 Sawtooth Mountain
 USA

Geodetic System: US State Plane Coordinate System 1927
 Ellipsoid: NAD27 (Clarke 1866)
 Zone: Montana, Northern Zone
 Magnetic Model: igr2005
 System Datum: Mean Sea Level
 Local North: True North

WELLPATH DETAILS

Original Hole			
Rig:	Elenburg 10		
Ref. Datum:	Est. RKB	3567.00ft	
V. Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
234.24°	0.00	0.00	0.00



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Top Eagle Target	1677.00	-487.97	-677.55	346614.70	1997410.70	Point
PBHL	2077.00	-487.97	-677.55	346614.70	1997410.70	Circle (Radius: 50)

SITE DETAILS

Boggess-DIR 02-12-25-17
 Section 2, T25N, R17E
 Blaine Co, MT
 Site Centre Northing: 3471102.60
 Easting: 1998088.30
 Ground Level: 3557.00
 Positional Uncertainty: 0.00
 Convergence: -0.01

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OCT 24 2008

Ryan Energy Technologies
 19510 Oil Center Blvd
 Houston, TX 77073
 Ph: 281-443-1414
 Fx: 281-443-1676



MONTANA BOARD OF OIL & GAS OWN. BILLINGS

Wellpath: (2-12-25-17)/Original Hole
 Created By: Shelly C. Peterkin Date: 8/26/2008
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____



Ryan Energy Technologies Survey Report



Company: DEVON ENERGY CORPORATION	Date: 8/26/2008	Time: 07:16:54	Page: 1
Field: Blaine County, MT	Co-ordinate(NE) Reference: Site: Boggess-DIR 02-12-25-17, True Nort		
Site: Boggess-DIR 02-12-25-17	Vertical (TVD) Reference: Est. RKB 3567.0		
Well: 2-12-25-17	Section (VS) Reference: Well (0.00N,0.00E,234.24Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Blaine County, MT Sawtooth Mountain USA	Map Zone: Montana, Northern Zone
Map System: US State Plane Coordinate System 1927	Coordinate System: Site Centre
Geo Datum: NAD27 (Clarke 1866)	Geomagnetic Model: igrf2005
Sys Datum: Mean Sea Level	

Site: Boggess-DIR 02-12-25-17 Section 2, T25N, R17E Blaine Co, MT			
Site Position:	Northing: 347102.60 ft	Latitude: 47 57 5.429 N	
From: Map	Easting: 1998088.30 ft	Longitude: 109 30 28.083 W	
Position Uncertainty: 0.00 ft		North Reference: True	
Ground Level: 3557.00 ft		Grid Convergence: -0.01 deg	

Well: 2-12-25-17	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 347102.60 ft
+E/-W 0.00 ft	Easting: 1998088.30 ft
Position Uncertainty: 0.00 ft	Latitude: 47 57 5.429 N
	Longitude: 109 30 28.083 W

Wellpath: Original Hole	Drilled From: Surface
Current Datum: Est. RKB	Tie-on Depth: 0.00 ft
Magnetic Data: 7/23/2008	Above System Datum: Mean Sea Level
Field Strength: 56513 nT	Declination: 12.77 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 72.20 deg
ft	+N/-S ft
	+E/-W ft
	Direction deg
0.00	0.00
0.00	0.00
0.00	234.24

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Survey Program for Definitive Wellpath					
Date: 8/26/2008	Validated: No	Version: 0	Toolcode	Tool Name	OCT 24 2008
Actual From ft	To ft	Survey			
258.00	2345.00	Survey #1 (258.00-2345.00)	MWD		MONTANA BOARD OF OIL & GAS CONS. BILLINGS
2389.00	2389.00	Survey #2 (2389.00-2389.00)	Projection	Projected to TD	

Survey										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
258.00	9.50	333.40	256.82	19.08	-9.56	-3.40	0.00	0.00	0.00	MWD
289.00	15.30	335.70	287.08	25.10	-12.39	-4.62	18.77	18.71	7.42	MWD
320.00	19.70	327.40	316.65	33.24	-16.89	-5.72	16.28	14.19	-26.77	MWD
351.00	23.10	321.40	345.51	42.39	-23.50	-5.71	13.03	10.97	-19.35	MWD
380.00	25.30	314.00	371.96	51.15	-31.51	-4.32	12.91	7.59	-25.52	MWD
410.00	24.90	302.00	399.15	58.95	-41.48	-0.79	16.99	-1.33	-40.00	MWD
439.00	27.30	287.60	425.22	64.21	-53.01	5.50	23.30	8.28	-49.66	MWD
471.00	30.00	274.60	453.32	67.07	-68.00	15.98	21.18	8.44	-40.62	MWD
502.00	31.60	261.30	479.98	66.46	-83.77	29.14	22.52	5.16	-42.90	MWD
534.00	33.50	250.90	506.98	62.30	-100.42	45.08	18.44	5.94	-32.50	MWD
565.00	35.20	240.40	532.59	55.08	-116.29	62.17	19.86	5.48	-33.87	MWD
660.00	41.20	231.40	607.27	21.98	-164.63	120.74	8.60	6.32	-9.47	MWD
752.00	40.30	227.70	676.98	-16.95	-210.32	180.57	2.80	-0.98	-4.02	MWD
846.00	41.80	224.80	747.87	-59.65	-254.89	241.69	2.58	1.60	-3.09	MWD
941.00	44.60	222.60	817.12	-106.68	-299.78	305.60	3.35	2.95	-2.32	MWD
1036.00	45.80	222.40	884.06	-156.37	-345.32	371.60	1.27	1.26	-0.21	MWD
1130.00	45.20	223.20	949.94	-205.57	-390.87	437.31	0.88	-0.64	0.85	MWD
1223.00	46.00	224.60	1015.01	-253.44	-436.95	502.68	1.38	0.86	1.51	MWD
1316.00	44.10	223.70	1080.72	-300.66	-482.79	567.47	2.15	-2.04	-0.97	MWD
1410.00	38.50	225.60	1151.31	-344.81	-526.33	628.61	6.10	-5.96	2.02	MWD
1503.00	39.30	225.90	1223.68	-385.56	-568.17	686.37	0.88	0.86	0.32	MWD
1535.00	40.00	225.90	1248.32	-399.77	-582.83	706.57	2.19	2.19	0.00	MWD



Ryan Energy Technologies Survey Report



Company: DEVON ENERGY CORPORATION
 Field: Blaine County, MT
 Site: Boggess-DIR 02-12-25-17
 Well: 2-12-25-17
 Wellpath: Original Hole

Date: 8/26/2008 Time: 07:16:54 Page: 2
 Co-ordinate(NE) Reference: Site: Boggess-DIR 02-12-25-17, True Nort
 Vertical (TVD) Reference: Est. RKB 3567.0
 Section (VS) Reference: Well (0.00N,0.00E,234.24Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1565.00	37.40	226.70	1271.73	-412.73	-596.39	725.15	8.83	-8.67	2.67	MWD
1596.00	33.50	227.80	1296.98	-424.94	-609.58	742.99	12.75	-12.58	3.55	MWD
1627.00	29.50	229.30	1323.41	-435.67	-621.71	759.10	13.15	-12.90	4.84	MWD
1659.00	26.70	230.20	1351.64	-445.41	-633.21	774.12	8.85	-8.75	2.81	MWD
1690.00	23.80	231.40	1379.67	-453.77	-643.45	787.32	9.50	-9.35	3.87	MWD
1720.00	20.60	231.40	1407.44	-460.84	-652.31	798.64	10.67	-10.67	0.00	MWD
1750.00	16.00	231.20	1435.92	-466.73	-659.66	808.05	15.33	-15.33	-0.67	MWD
1781.00	12.10	229.50	1465.99	-471.52	-665.46	815.55	12.65	-12.58	-5.48	MWD
1813.00	9.90	226.10	1497.40	-475.60	-669.99	821.62	7.16	-6.87	-10.62	MWD
1845.00	6.90	221.30	1529.05	-478.96	-673.25	826.22	9.62	-9.37	-15.00	MWD
1876.00	3.30	204.50	1559.92	-481.17	-674.84	828.81	12.45	-11.61	-54.19	MWD
1970.00	1.30	174.10	1653.85	-484.69	-675.86	831.69	2.42	-2.13	-32.34	MWD
2063.00	1.40	185.50	1746.82	-486.87	-675.86	832.96	0.31	0.11	12.26	MWD
2156.00	1.50	173.50	1839.79	-489.21	-675.83	834.31	0.34	0.11	-12.90	MWD
2250.00	1.90	155.50	1933.75	-491.85	-675.04	835.21	0.70	0.43	-19.15	MWD
2345.00	1.90	137.10	2028.70	-494.44	-673.32	835.32	0.64	0.00	-19.37	MWD
2389.00	1.90	137.10	2072.67	-495.51	-672.33	835.14	0.00	0.00	0.00	Projection

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OCT 24 2008

**MONTANA BOARD OF OIL
& GAS CONS. BILLINGS**

Date 9/8/08 (406)652-4400

COMPETITION WIRELINE SERVICES

7069 Niehenke Ave.
Billings, Montana 59101

INVOICE # 14901 LEASE/LOCATION Bogges - Dir 2-12-25-17

STATE Montana COUNTY Blaine LEGAL 2-25-17E

ELEVATION 3557' KB ELEVATION 3567' DRILLER TD 2387' FIELD Wildcat

COMPETITION PERSONNEL Shandorf / Morse / Hudson UNIT # 1116

COMPANY Deven Energy BY Jamie Nolan

ADDRESS _____
Competition Wireline Services is requested to perform the following services according to the terms printed on the reverse of this order.

ITEM	AMOUNT	INFORMATION			
		Casing	Lb/Ft	From	To
4501 SERVICE CHARGE:					
4503 SERVICE CHARGE: <u>Mast Unit</u>					
Mileage Logging unit @ _____ per mile					
Pickup @ _____ per mile					
Mast/crane @ _____ per mile					

Service 4536 Gamma Ray Log
Depth 2285'
Oper. 2285'

Fluid WATER Level (surf) Full

Competition measurements are from (check One):
KB _____ GL _____ Prev. Logs

Service 4537 Radial Bond Log
Depth 2285'
Oper. 2285'

CWS TD 2285' Driller TD 2387'

Service 4592 pressure test
Service 4656 Perforating 2.75" EHSC
Depth 1990' MIN
Oper. shot charge / cap 210'

Plug model _____ Size _____ Depth _____
Packer _____ Size _____ Depth _____

PERFORATIONS

Service 4645 gun barrel charge 35'
Service 4670 Stinson
Depth 1987.5'
Oper. stimsleeve 18' T
stimmings 6'

Intervals	SPF	Total #
1936-1951	(15)	9
1970-1990	(20)	12

Service 4592 pressure control
Depth _____
Oper. _____

TOTAL PERFORATIONS: 210

Service _____
Depth _____
Oper. _____

AFE #: 142 007

Service _____
Depth _____
Oper. _____

Remarks: AFE 142 007
AAW. Nick u.

EQUIPMENT, RENTALS, PERSONNEL

discount ←

MATERIALS

4504 mileage 150
4518 EHS
4592 5/16x4.5" BOP
Royalty on St. ms sleeve 18'

Sub total
Other
TOTAL CHARGES
Sales Tax
TOTAL CHARGES

Witnessed by: Jamie Weibgen
Competition WS Dan Shandorf
(Please Print)

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SEP 24 2008

MONTANA BOARD OF OIL & GAS CONS. BILLINGS