

CHECK SHEET

Date: 9/12/2016 API Number: 003-22950
Company: Briscoe Petroleum, LLC
Well Name: Kendrick Heirs 4-6
County: Big Horn
Field: Snyder
Surf. Location: 330 FNL 955 FWL NW NW Lot: 4 Sec: 6 Twp: 1 S Rng: 35 E

Permit Number: 32097 Drilling Fee: _____

Intention to Drill: 9/7/2016 Expiration Date: 3/7/2017

Mineral Ownership: Private State Federal Indian

Well Type: Vertical Multiple Laterals

Proposed Depth/Formation: MD: 4850 TVD: _____ Amsden

Drilling Unit _____ Acres _____ Description: _____

Samples Required: none Received: _____

COMPLETION INFORMATION

Completion Date: 4-7-17 TD: 4899 PBTD: 4810

Completed As: Oil IP / Formation: Tenslap
9 bbls oil / 0 gas / 41 bbls water

Geological Well Report: _____ Mud Log: _____

Sundry Notices:

Subsequent Report of Abandonment: Received: _____ Approved: _____

Electric Logs: Compact Qued Combo Quicklook > 7-5-17

Miscellaneous:



PERMIT CHECKLIST

Company: Briscoe Petroleum, LLC

Well Name: Kendrick Heirs 4-6

Private or State Federal Tribal or Allotted

SAGE GROUSE: No General Habitat Core Area
Program Analysis Received: 9/6/16 (Date)

BONDING: Bond OK: Yes No
Operator #: 733
Bond #: 911

PERMITTING: APD Complete: Yes No
Ads: Helena 8/20/16 (Date)
Other: 8/18/16 (Date)

SPACING / ORDER REVIEW:

FIELD NAME: Wildcat Big Horn

COMPLIANCE REVIEW:

PRE FRAC: With Permit: _____ (Date)
Sundry Notice: _____ (Date)

Notes / Comments _____

REVIEW / DATABASE ENTRY: _____ (initials)



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

RECEIVED
ARM 36.22.302
ARM 36.22.307
ARM 36.22.1011
ARM 36.22.1013
ARM 36.22.1414
JUL 05 2017

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

COMPLETION REPORT

API # 25 - 003 - 22950

Company Briscoe Petroleum, LLC Lease Kendrick Heirs Well No. 4-6

Address PO Box 6690 Field or Area Snyder
Sheridan, WY 82801

Surface Location: 330 ft. from N Line, 955 ft. from W Line, Sec. 6 T 1S R 35E
(N/S) (E/W)

County Big Horn County Elevation 3,293' 3304'
(Surface) (KB)

Date Spud 10/01/2016 Date Completed 4/7/2017 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 [Signature]

Title Rick D Briscoe Manager Date 6/29/17

Telephone 307-752-7630

For Vertical Well: Total depth 4,899 ft. Plugged back to 4,810 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	Type	String			Length (Feet)	From (MD, Feet)	To (MD, Feet)	Cement (Sacks)	Cement Top (MD, Feet)	Packer Set (MD, Feet)
		Size	Weight	Grade						
12.25"	surface	8-5/8"	24#/ft	J-55 ST&C	272	surface	272	182 sx G	surface	
7.875"	production	5-1/2"	17#/ft	J-55 LT&C	4,858'	surface	4,858'	140 sx G	2,360' CBL	
5-1/2"	tubing	2-7/8"	6.5#/ft	J-55 LT&C	4,630'	surface	4,630'			

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			
	4,606'	4,609'	2 SPF	4" casing gun 39 gram charges	open

Acidized, Shot, Fraced, Squeezed, or Cemented

Well Bore	Interval		Treatment Type	Amount and Type of Material	Max. Rate (BBLs/M. h)	Max. Pressure (PSI)
	Top	Bottom				
None						

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

I.P. 9 barrels of oil, 0 MCF of gas, and 41 barrels of water per 24 hours.

JUL 05 2017

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Initial 10-day average production _____ /day (if taken)
 Pressures (if measured): Tubing _____ psi flowing: _____ psi shut-in
 Casing _____ psi flowing: _____ psi shut-in
 Formation Volume Factor 1.05 Porosity 10% % Water Saturation 40% %
 Type Of Trap Structure Producing Mechanism Water Drive

Bottom Hole Locations

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

Drill Stem Tests

DST #	Interval		Tool Open (Min.)	Shut-in (Min.)	F.P.	S.I.P.	Recovery	Cushion
	From	To						
None								

Cores

Core #	Interval		Recovery
	From	To	
None			

Logs

Log Type	Interval	
	From	To
Gamma Ray	4,898'	surface
Resistivity	4,898'	274'
Density/Neutron	4,898'	274'
Sonic	4,000'	274'

Geological Markers

Formation	Top		Formation	Top	
	MD	TVD		MD	TVD
Cagle		500'			
Frontier		1,729'			
Muddy		3,127'			
Dakota		3,237'			
Lakota		3,600'			
Goose Egg		4,478'			
Tensleep		4,574'			
Tensleep Porosity		4,605'			
Amsden		4,742'			

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: **Kendrick Heirs**

Lease Type (Private/State/Federal): **Private**

Application for Permit To:

Drill Deepen Re-enter
Oil Gas Other

Well Number: **No. 4-6**

Operator: **Briscoe Petroleum, LLC**
Address: **P. O. Box 6690**
City: **Sheridan** State: **WY** Zip: **82801**
Telephone Number: **307 - 673-0803**

Field Name or Wildcat: **Snyder**

Unit Name (if applicable): **NA**

Surface Location of Well (quarter-quarter and footage measurements):
Lot 4 330' FNL 955' FWL

Objective Formation(s): **Tensleep and Amsden**

Township, Range, and Section:
sec. 6 - T1S - R35E

County: **Big Horn**

Elevation (indicate GL or KB):
3,294' ungraded GL

Proposed Total Depth and Bottom-hole Location(s) if directional or horizontal well:
4,850'

Size and description of drilling/spacing unit and applicable order, if any: Formation at total depth: Anticipated Spud Date:

66.10 Acre, Lot 4 Sec. 6 - T1S - R35E	Amsden	July 15, 2016
--	---------------	----------------------

Hole Size	Casing Size	Weight / Foot	Grade (API)	Depth	Sacks of Cement	Type of Cement
12.25"	8.625"	24#	J-55	240'	182	Class G
7.875"	5.50"	15.50#	J-55	4,850'	270	Class G

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

See Attachment.

BOARD USE ONLY

Approved (date) **SEP 07 2016** Permit Fee **\$75.00**

By **[Signature]** Check Number **1024**

Title **Petroleum Engineer** Permit Expires **MAR 07 2017**

Permit Number **32097**

THIS PERMIT IS SUBJECT TO THE CONDITIONS OF APPROVAL STATED ON THE BACK

API Number: 25 - **003** - **22950**

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

Signed (Agent) **[Signature]**

Title **Rick D. Briscoe, Manager**

Date **8/15/16**

Telephone Number **307-673-0803**

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

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:

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

Proposed Operations

Drilling

Drill 12.25" hole to 240', set 240' 8.625", 24#, J-55 casing, cement back to surface with 182 sacks class G cement, pressure test according to MBOGC rules post required WOC time, drill 7.875" hole to 4,850', run open hole logs, set 4,850' 5.5", 15.50#, J-55 casing with 270 sacks class G cement or plug and abandon according to MBOGC rules.

Possible drill stem test(s) of shows.

Fresh water based drilling fluids system will be utilized. Anticipated mud weight at TD of 9.00 PPG.

Pits to be unlined unless directed otherwise by MBOGC.

Reserve pits will be dewatered, allowed to evaporate and backfilled according to MBOGC rules.

Completion

Run CBL, GR, perforate and acidize prospective pay interval(s).

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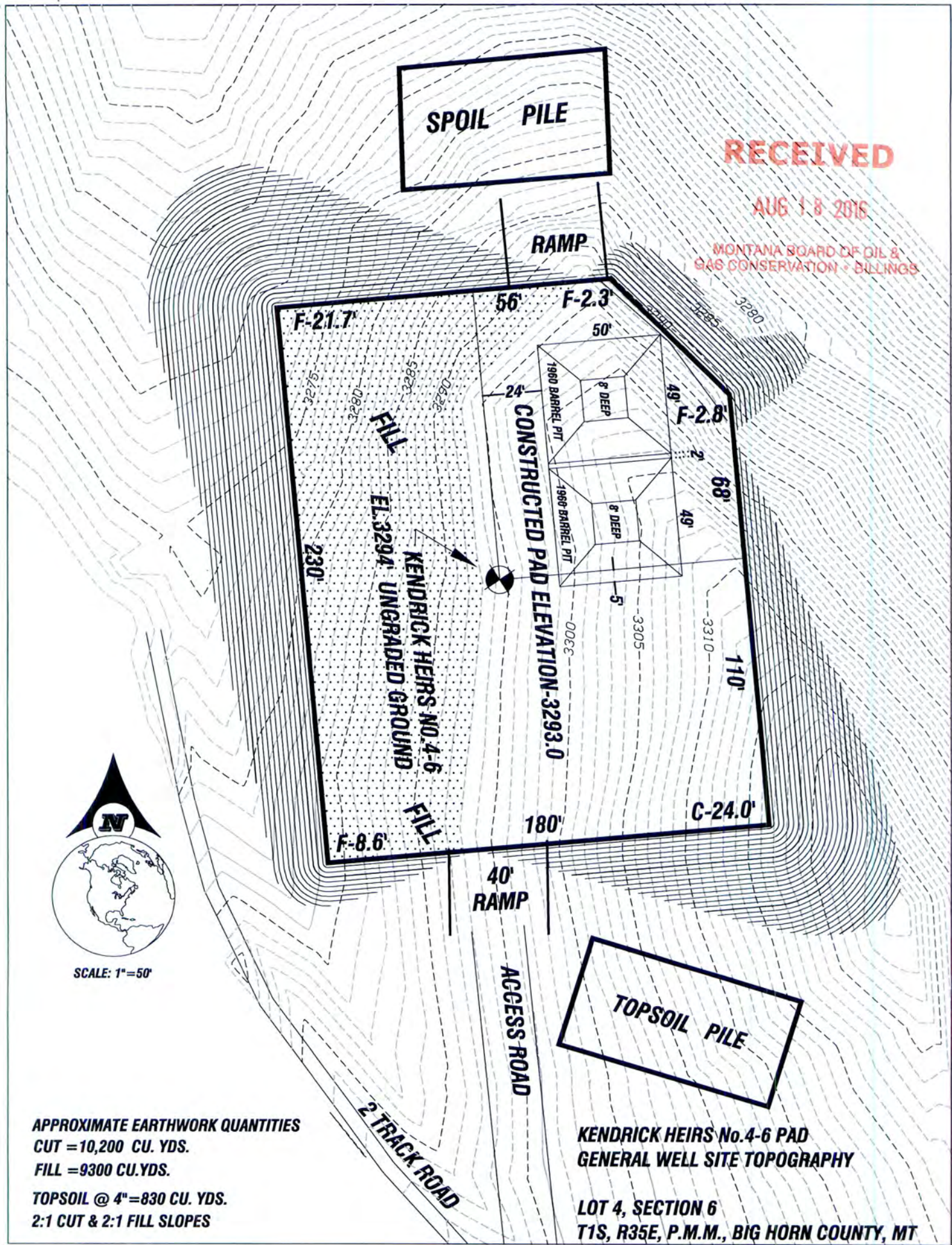
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SPOIL PILE

RAMP

F-21.7'

F-2.3'

56'

50'

FILL

KENDRICK HEIRS NO. 4-6
EL. 3294 UNGRADED GROUND

230'

CONSTRUCTED PAD ELEVATION-3293.0

1960 BARREL PIT

8' DEEP

F-2.8'

49'

8' DEEP

49'

5'

305

310

110'

C-24.0'

F-8.6'

180'

40' RAMP

ACCESS ROAD

TOPSOIL PILE

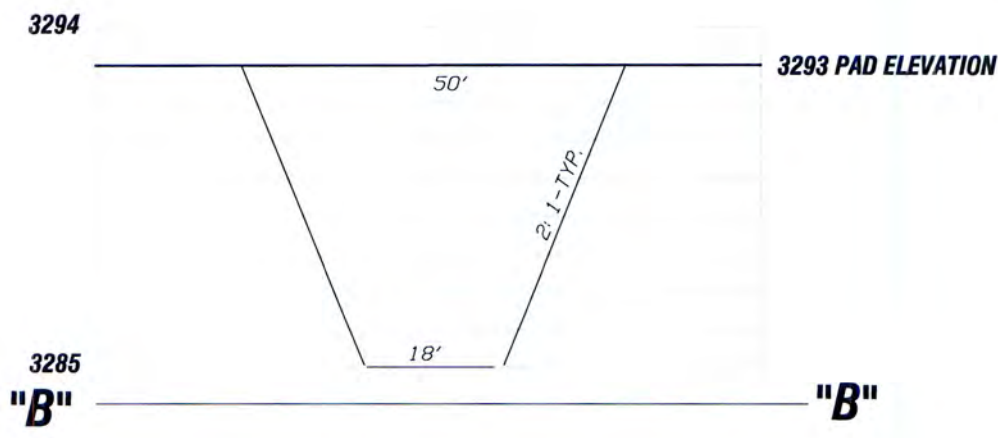
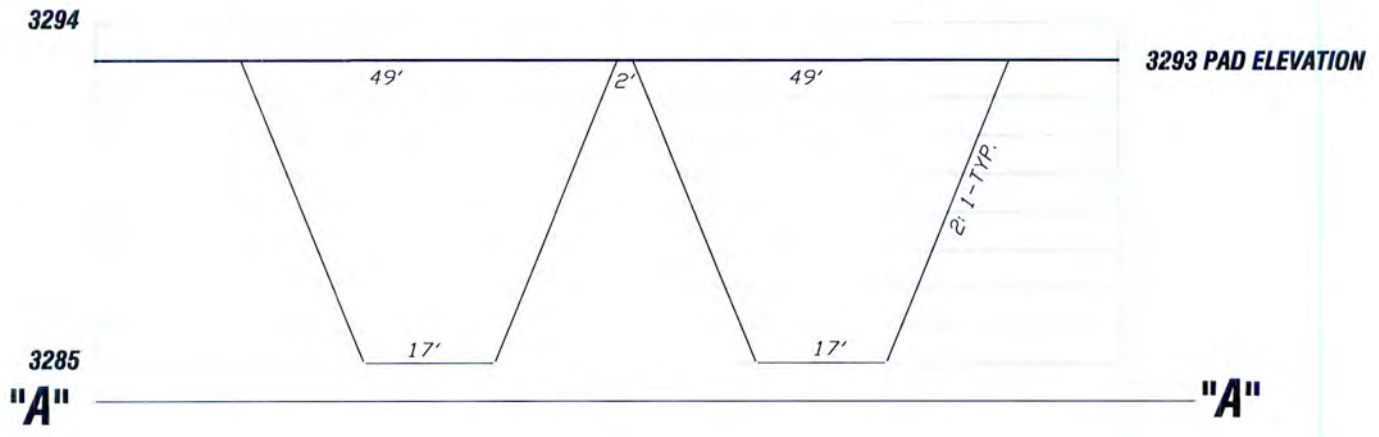
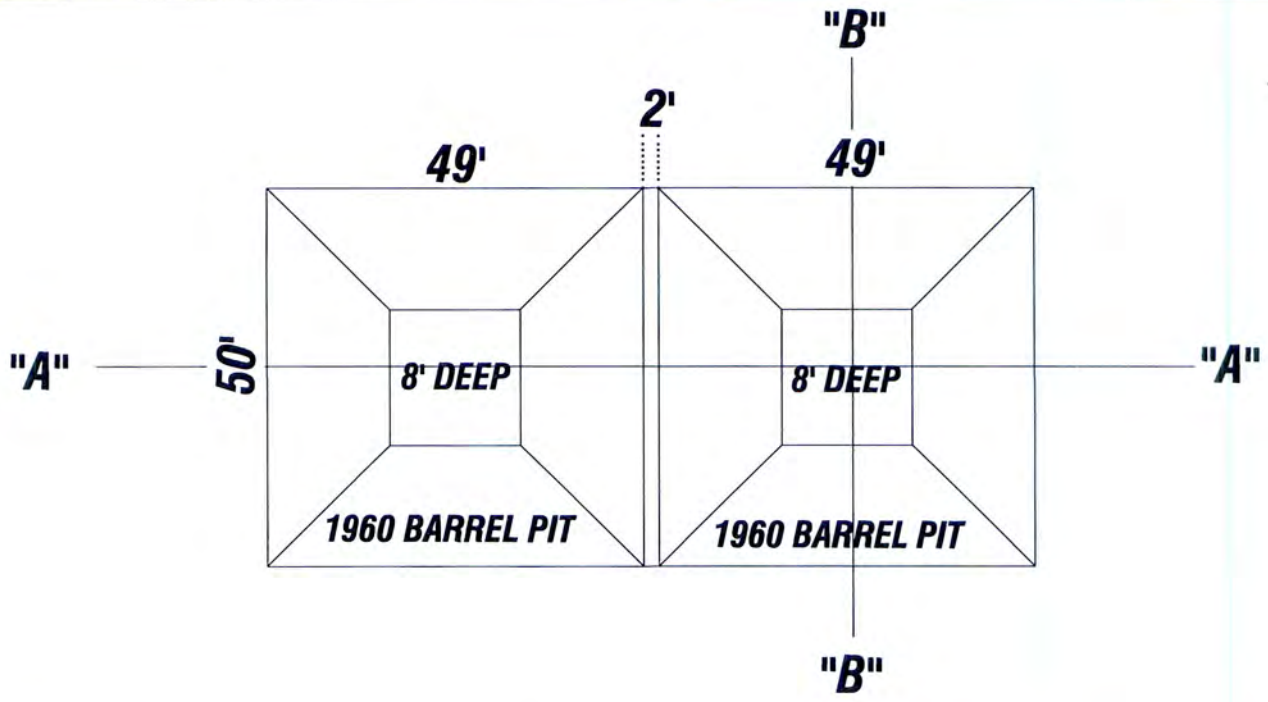


SCALE: 1"=50'

APPROXIMATE EARTHWORK QUANTITIES
 CUT = 10,200 CU. YDS.
 FILL = 9300 CU. YDS.
 TOPSOIL @ 4" = 830 CU. YDS.
 2:1 CUT & 2:1 FILL SLOPES

KENDRICK HEIRS No. 4-6 PAD
 GENERAL WELL SITE TOPOGRAPHY

LOT 4, SECTION 6
 T1S, R35E, P.M.M., BIG HORN COUNTY, MT



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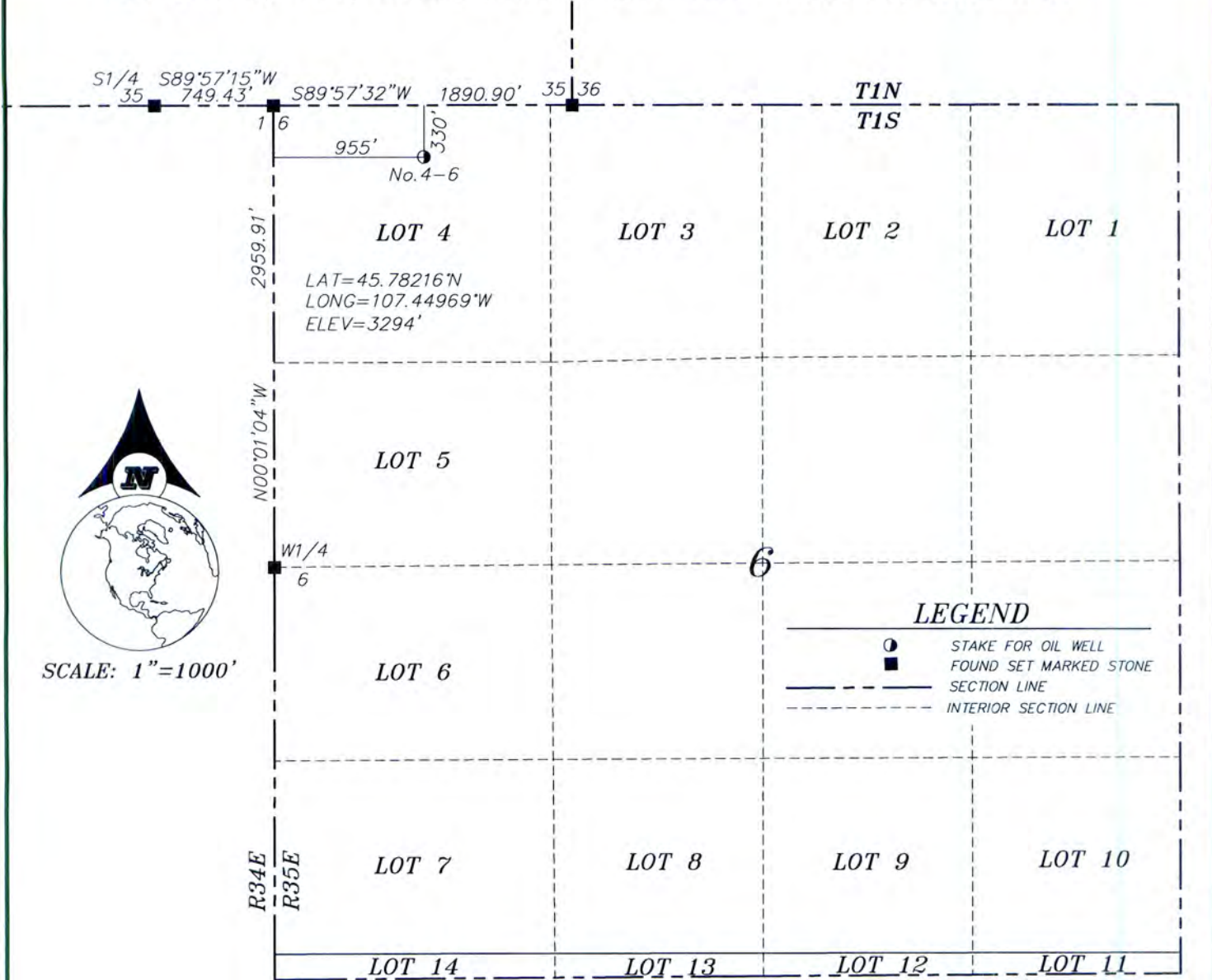
MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

**KENDRICK HEIRS No.4-6 PAD
PIT CROSS-SECTIONS**

**LOT 4, SECTION 6
T1S, R35W, P.M.M., BIG HORN COUNTY, MT**

**APPROXIMATE EARTHWORK QUANTITIES
CUT = 817 CU. YDS.
3920 BARRELS**

SECTION 6, T1S, R35E, P.M.M., BIG HORN COUNTY, MONTANA



SCALE: 1"=1000'

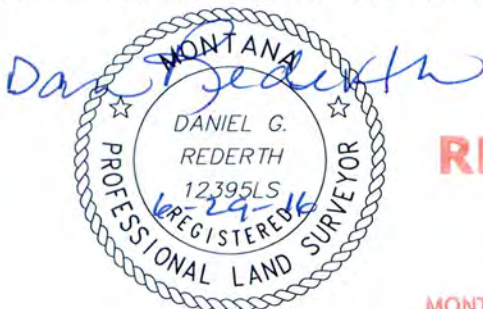
BASIS TABLE

BEARINGS ARE BASED ON A LOW DISTORTION TRANSVERSE MERCATOR PROJECTION WITH AN ORIGIN LATITUDE OF 45°57'N AND AN ORIGIN LONGITUDE OF 107°33'W (NAD83). DISTANCES ARE US FEET ADJUSTED TO SURFACE USING THE COMBINED SCALE FACTOR OF 1.0001407. ELEVATIONS ARE UNGRADED GROUND (NAVD88) BASED ON CORS POINTS BIL5 AND WYSH. Lats. AND Longs. ARE NAD83 BASED ON ABOVE CORS POINTS.

I, DANIEL G. REDERTH, A DULY REGISTERED LAND SURVEYOR IN THE STATE OF MONTANA, DO HEREBY STATE, BASED ON MY KNOWLEDGE AND INFORMATION, THIS PLAT IS A VALID REPRESENTATION OF A SURVEY MADE BY ME, OR UNDER MY DIRECT SUPERVISION.

THE OIL WELL STAKE IS:
 330' FROM NORTH LINE
 955' FROM WEST LINE
 DISTANCE TIES ARE PERPENDICULAR TO SECTION LINES.

**PLAT SHOWING DRILLING LOCATION
 KENDRICK HEIRS No.4-6**



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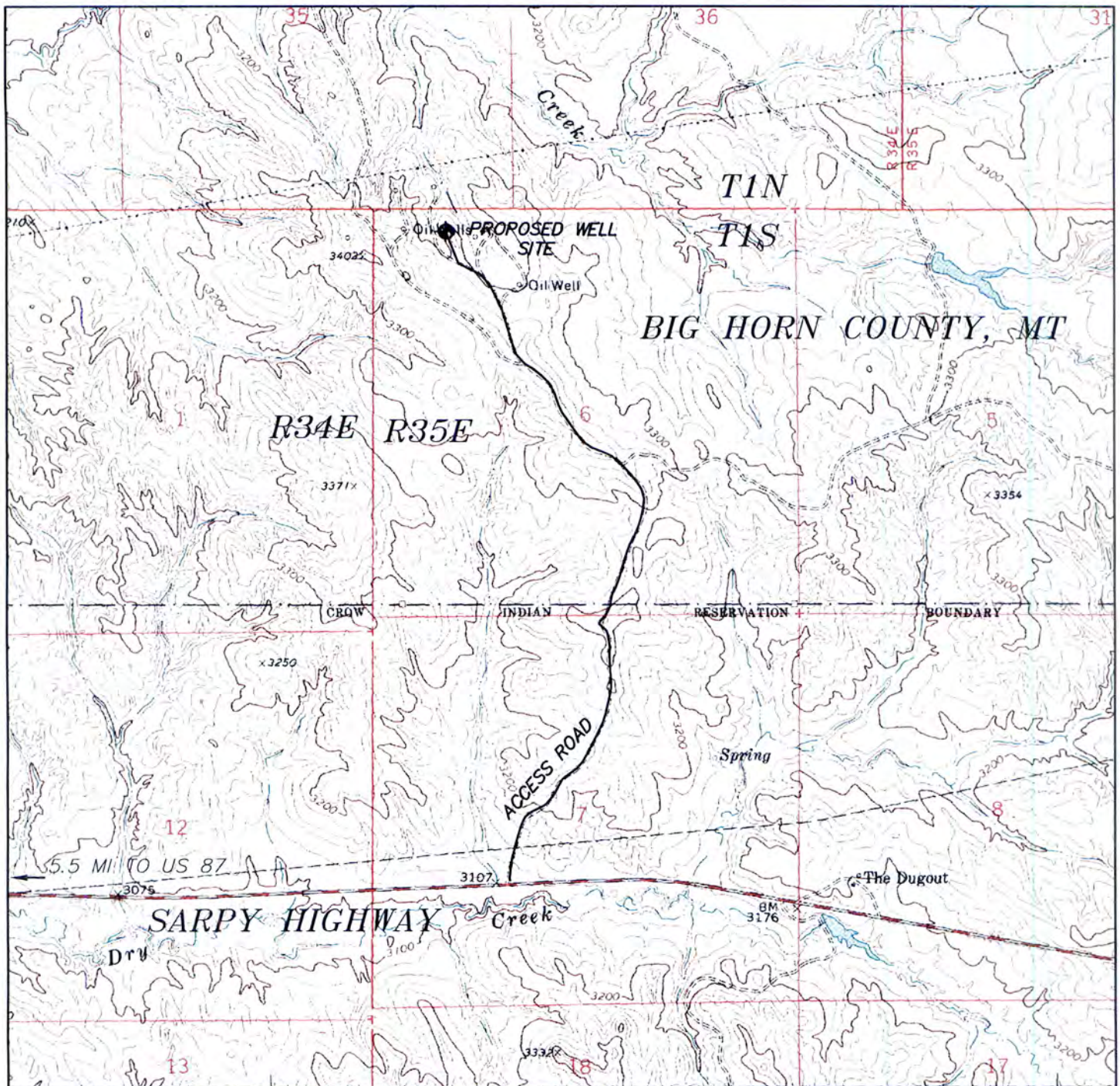
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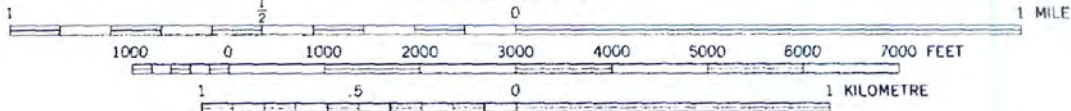
PO BOX 3082
 SHERIDAN, WY 82801
 307-672-7415
 FAX 674-5000

JN: 2015-090
 DF: 2012/2012-054 Ceeded
 TAB: KEN 4-6
 TGO: T2012-054 CEEDED
 JUNE, 2016



2520000 FEET 27'30" R. 34 E. R. 35 E. 310 (LITTLE DRY CREEK) 4575 III NW 311 25'

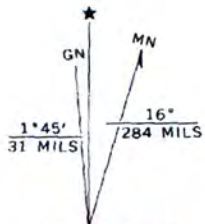
SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

KENDRICK HEIRS No. 4-6 ACCESS ROAD

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



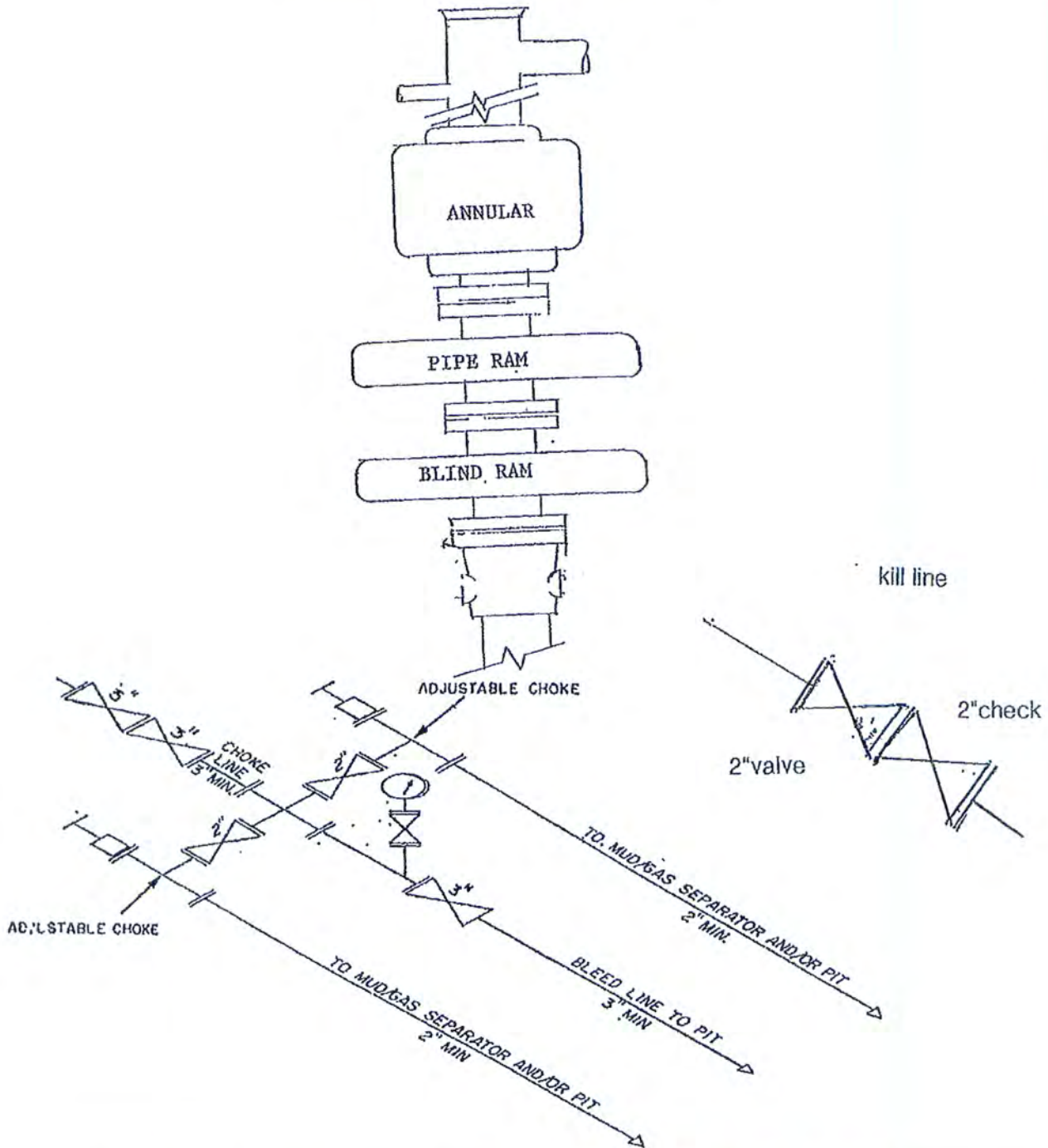
UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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9" 3000# BOP AND CHOKE MANIFOLD



P.O. 2440 Casper, WY 82602

Phone (307) 235-8609

Fax (307) 577-7227

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

SUNDRY NOTICES AND REPORT OF WELLS

Operator Briscoe Petroleum, LLC Address P. O. Box 6690 City Sheridan State WY Zip Code 82801 Telephone 307-673-0803 Fax	Lease Name: Kendrick Heirs Type (Private/State/Federal/Tribal/Allotted): Private Well Number: 4-6
Location of well (1/4-1/4 section and footage measurements): NW NW Sec. 6-T1S-R35E 330' FNL 955' FWL	Unit Agreement Name: NA Field Name or Wildcat: Snyder Township, Range, and Section: 1S, 35E, 6 County: Big Horn
API Number: 25 003 22950 State County Well	Well Type (oil, gas, injection, other): Oil

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

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

Perforated Tensleep from 4,609.5'-4,623' with Casing Gun (2 SPF)

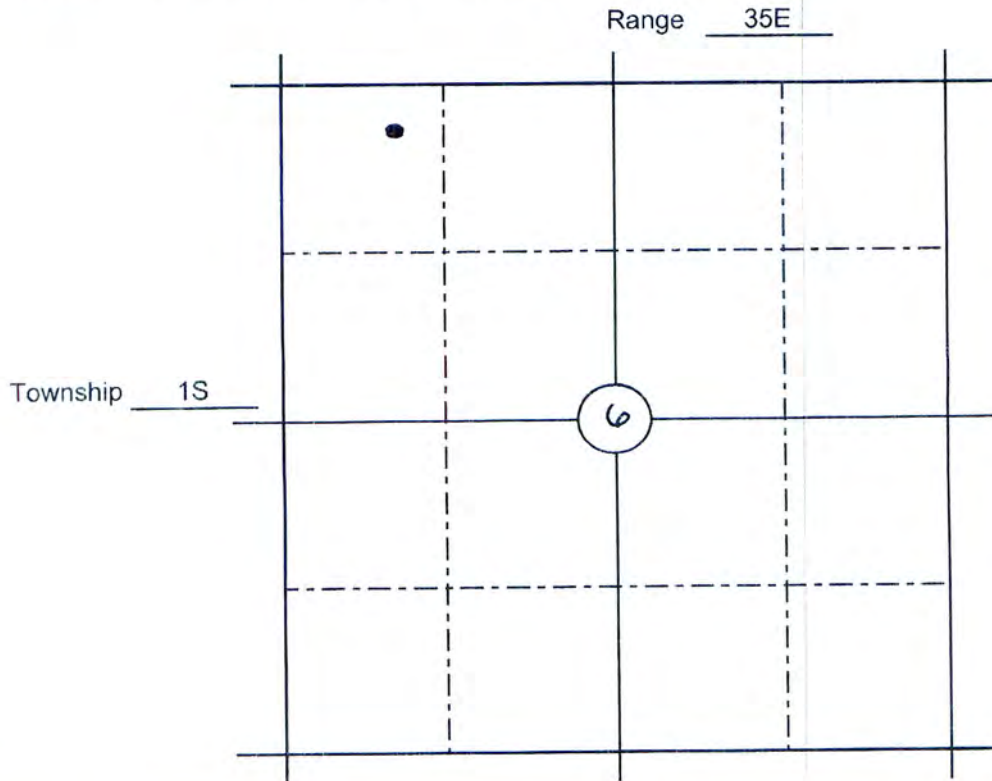
BOARD USE ONLY	
Approved <u> JUN 17 2019 </u> Date	
_____ Name	CHIEF FIELD INSPECTOR _____ Title

The undersigned hereby certifies that the information contained on this application is true and correct:	
<u> 6/16/19 </u> Date	 Signed (Agent)
Rick D. Briscoe, Manager Print Name and Title	
Telephone: <u> 307-673-0803 </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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CONDITIONS OF APPROVAL

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

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**MONTANA BOARD OF OIL &
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Failure to comply with the conditions of approval may void this permit.

00322950

MONTANA SAGE GROUSE HABITAT CONSERVATION PROGRAM



STEVE BULLOCK, GOVERNOR

1625 ELEVENTH AVENUE

STATE OF MONTANA

PHONE: (406) 444-0554
FAX: (406) 444-6721

PO BOX 201601
HELENA, MONTANA 59620-1601

Project No. 1472056624779
Governor's Executive Orders 12-2015 and 21-2015
Kendrick Heirs No. 4-6

Rick Briscoe
P.O. Box 6690
Sheridan, WY 82801

September 6, 2016

Dear Mr. Briscoe,

The Montana Sage Grouse Habitat Conservation Program received a request for consultation and review of your project or proposed activity on August 25, 2016. Based on the information provided, all or a portion of this project is located within General Habitat for sage grouse.

Executive Orders 12-2015 and 21-2015 set forth Montana's Sage Grouse Conservation Strategy. Montana's goal is to maintain viable sage grouse populations and conserve habitat so that Montana maintains flexibility to manage our own lands, our wildlife, and our economy and a listing under the federal Endangered Species Act is not warranted in the future.

The program has completed its review, including:

Project Description:

Project Type: Well - Oil
Project Disturbance: 2.8 Acres
Time Frame: Immediate

Project Location:

Legal: Township 1 South, Range 35 East, Section 6
County: Big Horn
Ownership: Private



Hosted by the Montana Department of Natural Resources and Conservation
Director's Office: (406) 444-2074



Executive Orders 12-2015 and 21-2015 Consistency:

The project proposes to drill, complete and produce one oil well on private land in designated General Habitat for sage-grouse.

Based on the information you provided, your project is not within two miles of an active sage-grouse lek.

Recommendations:


Weed management is required within General Habitat for sage grouse. Reclamation of disturbed areas must include control of noxious weeds and invasive plant species, including cheatgrass (*Bromus tectorum*) and Japanese brome (*Bromus japonicas*).

Your activities are consistent with the Montana Sage Grouse Conservation Strategy. Your proposed project or activity may need to obtain additional permits or authorization from other Montana state agencies or possibly federal agencies. They are very likely to request a copy of this consultation letter, so please retain it for your records.

Please be aware that if the location or boundaries of your proposed project or activity change in the future, or if new activities are proposed within one of the designated sage grouse habitat areas, please visit <https://sagegrouse.mt.gov/projects/> and submit the new information.

Thanks for your interest in sage grouse and your commitment to taking the steps necessary to ensure Montana's Sage Grouse Conservation Strategy is successful.

Sincerely,



Carolyn Sime
Montana Sage Grouse Habitat Conservation Program Manager

cc: Jim Halvorson
Board of Oil and Gas
2535 St. Johns Ave.
Billings, MT 59102



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

A. If gravel, sand or coal is encountered while constructing the cuttings pit the following must be done:

1. Contact BOGC field inspector for recommendations.
2. If rathole and mousehole encounter gravel. Rathole and mousehole must have a steel liner cemented in, notify field inspector.

B. If an operator wants to modify the approved surface casing depth, a Form Number 2 must be submitted requesting the change prior to setting surface casing on the well.

C. 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

Jerry -

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OCT 03 2016

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SPUD INFORMATION

WELL NAME: Kendrick Heins 4-6

API #: 003-22950

LOCATION: sec 6 - T1S - R35E NW NW
(Twp - Rge - Sec: ¼ ¼) (County: Big Horn)

SPUD DATE: 10/1/16

TIME: 18:30 hrs (6:30 pm)

DRILLING COMPANY: Capstar

RIG #: # 311

CALLER'S NAME: Rick Briscoe

COMPANY NAME: Briscoe Petroleum

OTHER --- PHONE NUMBER IF QUESTIONS: 307 752 7630

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

Proposed Action: Approve Drilling Permit (Form 22)

Operator: Briscoe Petroleum, LLC

Well Name/Number: Kendrick Heirs 4-6

Location: Lot 4 Section 6 T01S R35E

County: Big Horn MT; Field (or Wildcat) Wildcat

Air Quality

(possible concerns)

Long drilling time: No, 4 to 5 days drilling time.

Unusually deep drilling (high horsepower rig): No, small single derrick drilling rig, about 500 HP (Estimated) to drill to 4,850' TD, Tensleep and Amsden Formation test.

Possible H2S gas production: No H2S anticipated.

In/near Class I air quality area: No not in a Class I air quality area.

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 small rig to drill to 4,850' TD. If there aren't any gas gathering systems nearby, associated gas can be flared under Board Rule 36.22.1220.

Water Quality

(possible concerns)

Salt/oil based mud: No, freshwater, freshwater mud system.

High water table: No high water table anticipated.

Surface drainage leads to live water: Potentially, closest drainage is an unnamed ephemeral drainage to Little Ninemile Creek about 375' to the north. Little Ninemile Creek is 2/5 of a mile to the northeast.

Water well contamination: No water wells within a 1 mile radius from this location.

Surface hole in this well will be drilled to 240' with freshwater based drilling fluid. Steel surface casing will be run and cemented to surface to protect ground water. (Rule 36.22.1001)

Porous/permeable soils: No, sandy silty bentonitic 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: _____

Comments: 240' of surface casing cemented to surface adequate to protect freshwater zones (Rule 36.22.1001) Also, air/air mist and/or fresh water mud systems to be used.

Soils/Vegetation/Land Use

(possible concerns)

Steam crossings: No, stream crossings anticipated.

High erosion potential: Possible, large cut, up to 24.0' and large fill, up to 21.7', 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, 230'X180' location 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 Sage Grouse Program

Comments: Access will be over existing county road and existing two track trail/lease road. Cuttings will be buried in and unlined reserve pit. Drilling fluids, if used, will be allowed to dry in the pit. Pits will be backfilled after drying. No special concerns.

Health Hazards/Noise

(possible concerns)

Proximity to public facilities/residences: No residence within a one mile radius. Crow Indian Reservation is located about a mile to the south. The town of Hardin, MT is located 8.5 miles to the southwest.

Possibility of H2S: No H2S anticipated.

Size of rig/length of drilling time: Small drilling rig/short 4 to 5 days drilling time.

Mitigation:

Proper BOP equipment

Topographic sound barriers

H2S contingency and/or evacuation plan

Special equipment/procedures requirements

Other: _____

Comments: Adequate surface casing and operational BOP (3,000 psi annular) should mitigate any problems. (BOP's 3,000 psig annular) Rule 36.22.1014. No concerns

Wildlife/recreation

(possible concerns)

Sage Grouse: In general habitat. Program analysis not received

Proximity to sensitive wildlife areas (DFWP identified): In General Sage Grouse habitat.

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: Only species identified as threatened or endangered is the Black-footed Ferret. NH tracker website lists three (3) species of concern: Merriam's Shrew, Preble's Shrew, and Plains Hog-nosed Snake.

Mitigation:

- Avoidance (topographic tolerance/exception)
- Other agency review (DFWP, federal agencies, DNRC Trust Lands)
- Screening/fencing of pits, drillsite
- Other: _____

Comments: Private cultivated surface lands. There may be 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.. No concerns

Historical/Cultural/Paleontological

(possible concerns)

Proximity to known sites: None identified

Mitigation

- avoidance (topographic tolerance, location exception)
- other agency review (SHPO, DNRC Trust Lands L, federal agencies)
- Other: _____

Comments: Private cultivated surface lands. There may be 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.. 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 wildcat, 4,850' Tensleep and Amsden Formation test.

Summary: Evaluation of Impacts and Cumulative effects

No long term impacts expected. Some short term impacts will occur, but can be mitigated.

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/ John Gizicki _____
(title:) Compliance Specialist
Date: August 23, 2016

Other Persons Contacted:

Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Big Horn County water wells.
(subject discussed)

August 23, 2016 (date)

US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA
COUNTIES, Big Horn County
(subject discussed)

August 23, 2016
(date)

Montana Natural Heritage Program Website (FWP)
(Name and Agency)
Heritage State Rank= S1, S2, S3, T01S R35E
(subject discussed)

August 23, 2016
(date)

Montana Cadastral Website
(Name and Agency)
Surface Ownership and surface use Section 06 T01S R35E
(subject discussed)

August 23, 2016 (date)

If location was inspected before permit approval:

Inspection date: _____

Inspector: _____

Others present during inspection: _____

Page : 1 of 1 08/16/2016 12:08:21

Order Number : 20360093
 PO Number : Rick Briscoe
 Customer : 60034243 Briscoe Petroleum, LLC
 Contact : Rick Briscoe
 Address1 : P.O. Box 6690
 Address2 :
 City St Zip : Sheridan WY 82802
 Phone : (307) 673-0803
 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 : 10853234
 Ad Key :
 Salesperson : Legal - Legals - Helena
 Publication : Independent Record
 Section : Class Section
 Sub Section : Legal
 Category : 9999 Legals
 Dates Run : 08/20/2016-08/20/2016
 Days : 1
 Size : 2 x 4.66, 42 lines
 Words : 326
 Ad Rate : Legal Line
 Ad Price : 159.76
 Amount Paid : 0.00
 Amount Due : 159.76

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AUG 24 2016

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

**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
 Briscoe Petroleum, LLC
 for a Permit to Drill an oil and gas well.

- Name and address of Applicant:
Briscoe Petroleum, LLC
P.O. Box 6690
Sheridan, WY 82801
- Legal Description including County and Approximate Foot-
ages of Surface Location of Proposed Oil and Gas Well:
(and projected bottom-hole location, if a directional or horizontal
well)
330' FNL, 955' FWL
Lot 4 Sec. 6 - T1S - R35E
Big Horn County, Montana
- Total Depth Proposed to be Drilled:
4,850'

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; AND (3) A CERTIFICATE OF SERVICE MUST ACCOMPANY THE DEMAND AS FILED WITH THE BOARD.

Montana Board of Oil and Gas Conservation
 2535 St. Johns Avenue
 Billings MT 59102
 Office: (406) 656-0040
 Fax: (406) 655-6015
 August 20, 2016

MNAXLP

**AFFIDAVIT OF PUBLICATION
 STATE OF MONTANA,**

County of Lewis & Clark

Billie Jo Williams

Being duly sworn, deposes and says;

That she is the principle 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

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

August 20, 2016

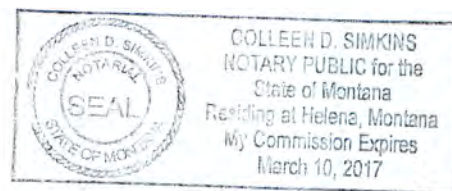
making in all 1 publication(s)

Subscribed and sworn to me this 22 day of August, 2016.

Colleen D. Simkins
 Notary Public for the State of Montana

Printed Name: Colleen D. Simkins
 Residing at Helena, Montana
 My commission expires March 10, 2017

(Notary Seal)



AFFIDAVIT OF PUBLICATION

State of Montana
County of Big Horn

I, Barb Eben, being duly sworn, upon oath, say: That I am over the age of twenty-one years, and a citizen of the United States of America; that I am not a party to, nor in anywise interested in the matter referred to in the attached notice; that I am now Office Manager of the Big Horn County News.
That the annexed printed notice,

BEFORE THE BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
 In the Matter of the application of **Briscoe Petroleum, LLC** 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:
Briscoe Petroleum, LLC
P.O. Box 6690
Sheridan, WY 82801

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)
330' FNL, 955' FWL
Lot 4 Sec. 6 - T1S - R35E
Big Horn County, Montana

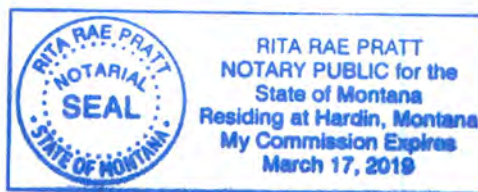
3. Total Depth Proposed to be Drilled:
4,850'

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

is a true copy (in identical terms and format) which was printed and published in full in the regular and entire issue of said newspaper (and not in any supplement thereof) on **August 18, 2016**.

BARB EBEN, Office Manager
Big Horn County News

SUBSCRIBED AND SWORN to before me this 19th day of August, 2016 by Barb Eben.



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AUG 22 2016

MONTANA BOARD OF OIL & GAS CONSERVATION • BILLINGS

BRISCOE PETROLEUM, LLC

P. O. Box 6690
45 EAST LOUCKS STREET, SUITE 209
SHERIDAN, WY 82801
307/673-0803

August 15, 2016

Mr. Ben Jones
Montana Board of Oil and Gas Conservation
2535 St. Johns Avenue
Billings, MT 59102

Re: Drilling Permit
Kendrick Heirs No. 4-6
Sec. 6-T1S-R35E
Big Horn County, Montana

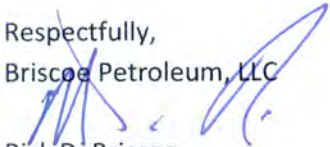
Dear Mr. Jones:

Please find enclosed our application for a permit to drill the referenced well along with the required fee of \$75.00.

We are concurrently filing notice in the appropriate newspapers.

Should you have any questions or need any additional information, please do not hesitate to telephone me at 307/673-0803.

Respectfully,
Briscoe Petroleum, LLC


Rick D. Briscoe
Manager

RDB/jc

Encl.

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AUG 18 2016

MONTANA BOARD OF OIL &
GAS CONSERVATION • BILLINGS

Date 10.14.2016 (406)652-4400

PIONEER

Pioneer Wireline Services, LLC
7069 Niehenke Ave.
Billings, Montana 59101

003-22950

TICKET # 5 - 29461 LEASE/LOCATION Roundtek Aeras 4-6

STATE Montana COUNTY Big Horn LEGAL 1S-35E-6

ELEVATION 3293 KB ELEVATION 3304 DRILLER TD 4900 FIELD Marcus Snyder

PIONEER PERSONNEL Trw, Bob P., John H. UNIT # 78

COMPANY Briscoe Petroleum BY _____
OCT 27 2016

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

MONTANA BOARD OF OIL & GAS CONSERVATION - BILLINGS

ITEM		AMOUNT	INFORMATION			
10000	SERVICE CHARGE: <u>Logger</u>		Casing	Lb/Ft	From	To
	SERVICE CHARGE:		<u>5.5</u>	<u>17</u>	<u>surf</u>	<u>4861.9'</u>
	Mileage Logging unit <u>78</u> @ _____ per mile					
	Pickup <u>7</u> @ _____ per mile					
10011	Mast/crane <u>7134</u> @ _____ per mile					
Service	<u>Well Control</u>		Fluid <u>surf</u> Level (surf) _____			
Depth	<u>11000</u>		Pioneer measurements are from (check One):			
Oper.	<u>Packoff</u>		KB <u>11</u> GL _____ Prev. Logs _____			
Service	<u>Cement Bond Log</u>		CWS TD _____ Driller TD _____			
Depth	<u>12101</u>		Plug model _____ Size _____ Depth _____			
Oper.	<u>Depth 6000m - 79</u>		Packer _____ Size _____ Depth _____			
	<u>Operation 4810</u>					
Service			PERFORATIONS			
Depth			Intervals	SPF	Total #	
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