

JUL 14 2008
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Secretary's Potash
ATS-08-699UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

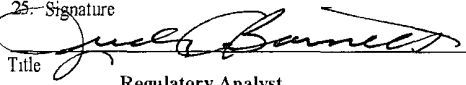
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-77046	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Devon Energy Production Company, LP		7. If Unit or CA Agreement, Name and No	
3a. Address 20 North Broadway Oklahoma City, Oklahoma City 73102-8260		8. Lease Name and Well No. North Pure Gold 10 Federal 1H	
3b. Phone No. (include area code) 405-228-8699		9. API Well No. 30-015-36427	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SW/4 480' FSL & SW/4 330' FWL At proposed prod. zone BHL: 330' FNL & 660' FWL PP: 480' FSL & 330' FWL		10. Field and Pool, or Exploratory Los Medanos; Delaware	
11. Sec, T, R, M or Blk. and Survey or Area SEC 10 T23S R31E		12. County or Parish Eddy County	
13. State NM		14. Distance in miles and direction from nearest town or post office* Approximately 19 miles east of Loving, NM.	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 330'		16. No. of acres in lease 1,320	
17. Spacing Unit dedicated to this well 160 Acres		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2328'	
19. Proposed Depth 8055' TVD 12,350' MD		20. BLM/BIA Bond No. on file CO-1104	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3379' GL		22. Approximate date work will start* 45 days	
23. Estimated duration			

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

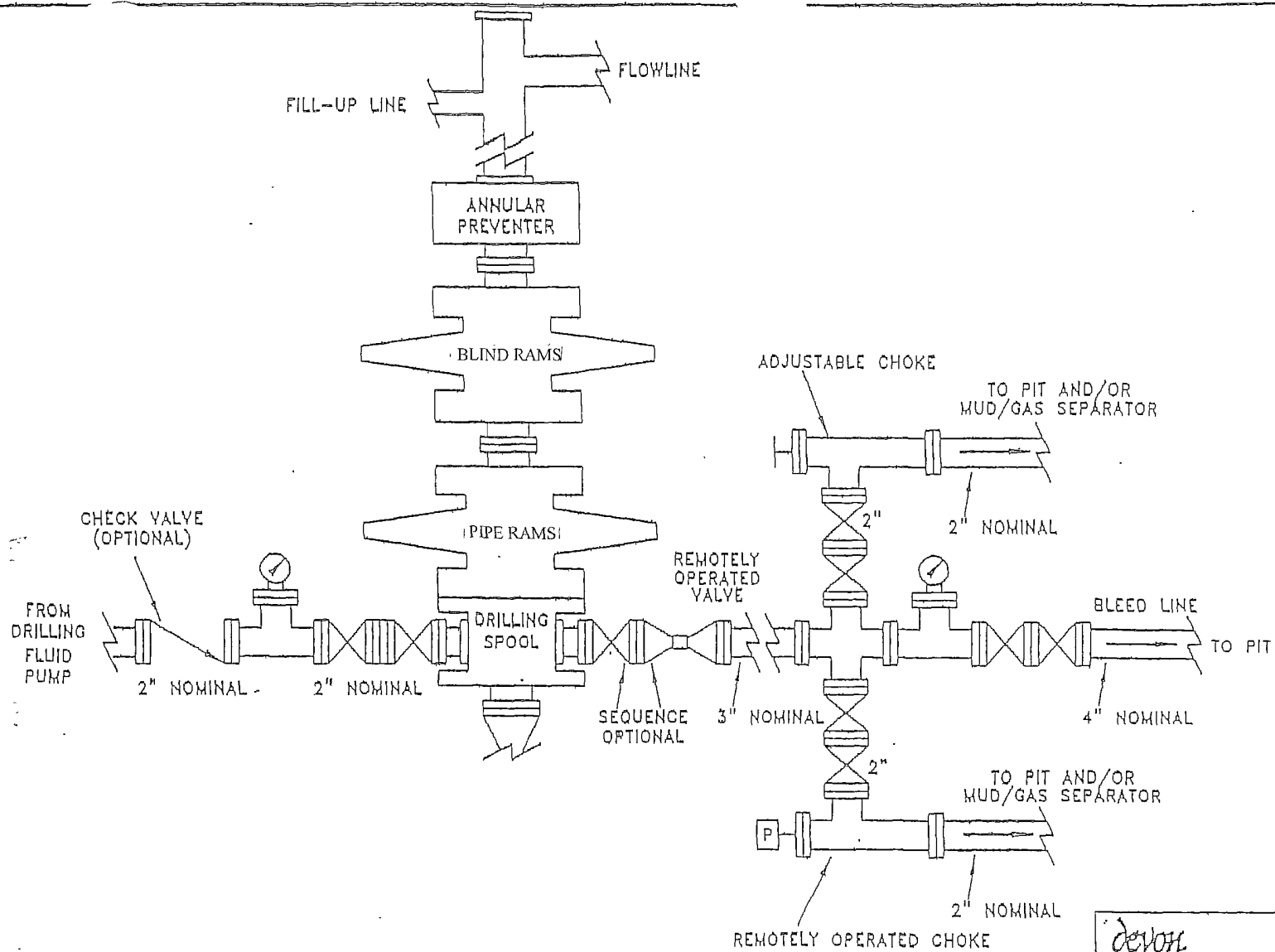
25. Signature 		Name (Printed/Typed) Judy A. Barnett	Date 05/14/2008
Title Regulatory Analyst			
Approved by (Signature) /s/ Linda S.C. Rundell		Name (Printed/Typed) /s/ Linda S.C. Rundell	Date JUL 09 2008
Title STATE DIRECTOR		Office NM STATE OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.**APPROVAL FOR TWO YEARS**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN**SEE ATTACHED FOR
CONDITIONS OF APPROVAL****APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**



Asking for

devon

EXHIBIT 1

PROPOSED 5-M BOPE
AND CHOKE ARRANGEMENT

sl\\nm\plots
5mbope.dwg

sc

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36427	Pool Code 40297	Pool Name Los Medanos; Delaware
Property Code 37260	Property Name NORTH PURE GOLD "10" FEDERAL	Well Number 1H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 3379'

Surface Location

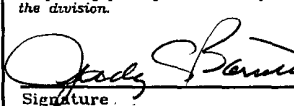
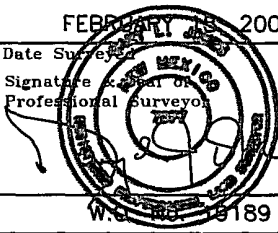
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	23 S	31 E		480	SOUTH	330	WEST	EDDY

Bottom Hole Location If Different From Surface

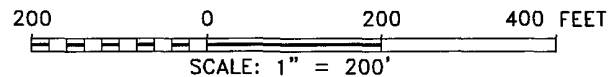
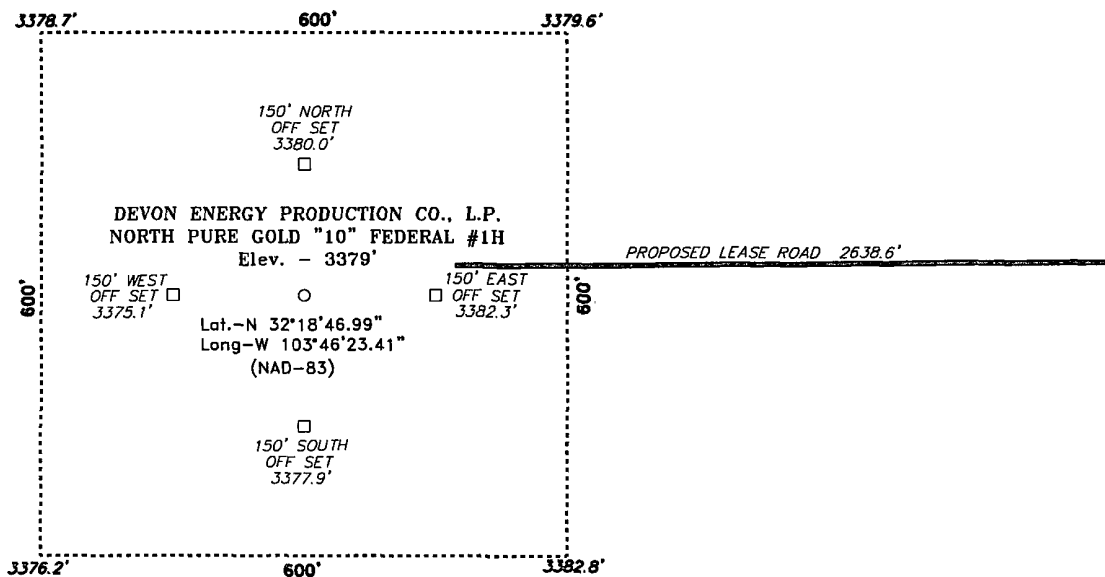
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	10	23 S	31 E		330	NORTH	660	WEST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>N: 32°19'34.61" W: 103°45'27.17" N: 482884.330 E: 714042.392</p> <p>660'</p> <p>4483.1'</p> <p>N: 32°19'08.493" W: 103°46'27.157" N: 480244.402 E: 714057.341</p> <p>3378.7'</p> <p>330'</p> <p>N: 32°18'42.362" W: 103°46'27.149" N: 477603.837 E: 714071.798</p> <p>3376.2'</p> <p>3379.6'</p> <p>3382.8'</p>	<p>BOTTOM HOLE LOCATION Lat - N32°19'31.36" Long - W103°46'19.48" SPC- N.: 482558.450 E.: 714704.248 (NAD-83)</p> <p>SURFACE LOCATION Lat - N32°18'46.99" Long - W103°46'23.41" SPC- N.: 478085.827 E.: 714399.109 (NAD-83)</p>	<p>N: 32°19'34.642" W: 103°45'56.396" N: 482900.793 E: 716682.911</p> <p>N: 32°19'34.666" W: 103°45'25.579" N: 482917.279 E: 719327.171 (CALC)</p> <p>N: 32°19'08.531" W: 103°45'25.571" N: 480276.305 E: 719342.048</p> <p>N: 32°18'42.380" W: 103°45'56.366" N: 477619.480 E: 716713.485</p> <p>N: 32°18'42.394" W: 103°45'25.563" N: 477634.998 E: 719356.927</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p> 5/13/08 Signature Date</p> <p>Judy A. Barnett Printed Name Regulatory Analyst</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>FEBRUARY 25 2008 Date Surveyed</p> <p> Signature of Professional Surveyor</p> <p>W. L. Jones W. L. Jones 18189</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>
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SECTION 10, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM MILE MARKER 18 ON STATE HWY. 128, GO WEST 0.5 MILES TO CO. RD. 798, ON CO. RD. 798 GO NORTH 2.1 MILES TO LEASE ROAD, ON LEASE ROAD GO WEST 1.6 MILES TO LEASE ROAD, ON LEASE ROAD GO NORTH 1.2 MILES TO PROPOSED LEASE ROAD.

DEVON ENERGY PROD. CO., L.P.

REF: NORTH PURE GOLD "10" FEDERAL #1H / WELL PAD TOPO

THE NORTH PURE GOLD "10" FEDERAL #1H LOCATED 480'

FROM THE SOUTH LINE AND 330' FROM THE WEST LINE OF

SECTION 10, TOWNSHIP 23 SOUTH, RANGE 31 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS

P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 19189

Drawn By: J. M. SMALL

Date: 02-25-2008

Disk: 19189W JMS

Survey Date: 02-18-2008

Sheet 1 of 1 Sheets

DRILLING PROGRAM
Devon Energy Production Company, LP
North Pure Gold 10 Federal 1H

Surface Location: 480 FSL & 330 FWL, Unit M, Sec 10 T23S R31E, Eddy, NM
Bottom Hole Location: 330 FNL & 660 FWL, Unit D, Sec 10 T23S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Alluvium

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

a. Rustler	540'	Water
b. Salado	863'	
c. Base of Salt	4239'	
d. Delaware/Lamar	4293'	Oil
e. Bell Canyon	4361'	Oil
f. Cherry Canyon	5158'	Oil
g. Brushy Canyon	6459'	Oil
h. Total Depth	12,350'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 500' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4215' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing.

*see
COA*

3. Casing Program:

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
<i>see</i> 17-1/2"	0'-500'	13-3/8"	0'-500'	48 #/ft	ST&C	H-40
<i>COA</i> 12-1/4"	500'-4215'	9-5/8"	0'-4215'	40 #/ft	LT&C	K-55
8-1/2"	4215'-8330'	5 1/2"	0'-8330'	17#/ft	LT&C	N-80
7 7/8"	Horizontal Section	5-1/2"	8330'-12,350'	17 #/ft	BT&C	N-80

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13 3/8"	3.39	2.37	7.59
9 5/8"	1.72	2.85	4.23
5 1/2"	1.58	2.39	2.42

4. **Cement Program:**

13 3/8" Surface

Lead w/ 275 sx (35:65) Poz (Fly Ash): Premium Plus C Cement + 5% bwow Sodium Chloride + 5% bwoc MPA-5 + 0.8% bwoc Sodium Metasilicate + 0.125 lbs/sx CF + 4% Bentonite + 101.1% FW **Yield:** 1.96 cf/sx. Circulate to surface..

Tail w/ 250 sx Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sx CF + 56.3% FW Yield: 1.35 cf/sx

9 5/8" Intermediate

Lead w/ 1210 sx (35:65) Poz (Fly Ash): Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sx CF + 6% bwoc Bentonite + 107.8% FW. **Yield:** 2.04 cf/sx. Circulate to surface .

Tail w/ 300 sx (60:40) Poz (Fly Ash): Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sx CF + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% FW **Yield:** 1.37 cf/sx.

2 Stage with DV tool @ 7500'

5 1/2" Production

STAGE 1 Spacer: 10.0 bbls Fresh Water @ 8.34 ppg; 1,500 gals Mud Clean II @ 8.45 ppg; 10 bbls Fresh Water @ 8.34 ppg

Lead w/ 900 sx Class H Cement + 0.35% bwoc R-3 + 0.4% bwoc CD-32 + 1.4% bwoc FL-62 + 0.1% bwoc ASA-301 + 0.2% bwoc Sodium Metasilicate + 20 lbs/sx ASCA-1 + 52.9% FW Yield: 1.42 cf/sx

STAGE 2 Spacer: 20.0 bbls Fresh Water @ 8.34 ppg

Lead w/ 600 sx (35:65) Poz (Fly Ash): Premium Plus C Cement + 1% bwow Sodium Chloride + 0.4% bwoc R-3 + 0.125 lbs/sx CF + 6% bwoc Bentonite + 0.4% bwoc FL-52A + 103.1% FW **Yield:** 1.96 cf/sx, TOC @ 3715'.

Tail w/ 340 sx 60:40 Poz (Fly Ash) Premium Plus C Cement + 1% Sodium Chloride + 0.125 lbs/sx CF + 0.75% bwoc BA-10A + 4% bwoc MPA-5 + 63.1% FW. Yield: 1.96 cf/sx,

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 500' above the 9 5/8" casing shoe. All casing is new and API approved.

5. **Pressure Control Equipment:**

The blowout preventor equipment (BOP) shown in Exhibit #1 will consist of a (5M system) double ram type (5000 psi WP) preventor and a bag-type (Hydril) preventor (5000 psi WP) and rotating head. Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. The BOP will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested to 1200 psi with the rig pump before drilling out the 13 3/8" casing shoe (70% of 48#, H-40 casing). Prior to drilling out the 9 5/8" casing shoe, the BOP's and Hydril will be tested as per BLM Drilling Operations Order #2.

see →
COA

Pipe rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 5000 psi WP rating.

Proposed Mud Circulation System

<u>Depth</u>	<u>MudWt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0- 500' 550	8.4-9.4	32 - 34	NC	Gel/Lime
550 750 - 4215' 4500	10	28	NC	Brine
4215- 8330'	8.3 -8.8	28-30	NC - 40cc	Fresh Water
8330-12,350	8.6 - 9.0	34 -40	8 - 12 cc	Fresh Water/Polymer

The necessary mud products for weight addition and fluid loss control will be on location at all times.

6. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

7. Logging, Coring, and Testing Program:

- Drill stem tests will be based on geological sample shows.
- If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- The open hole electrical logging program will be:
 - Total Depth to Intermediate Casing
and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper.
 - Total Depth to Surface
Compensated Neutron with Gamma Ray
 - No coring program is planned
 - Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

8. Potential Hazards:

- No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2900 psi and Estimated BHT 120°. No H₂S is anticipated to be encountered.

9. Anticipated Starting Date and Duration of Operations:

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



DEVON ENERGY CORPORATION

Field: Eddy Co, NM
Site: NPG 10 Fed 1H
Well: 10 Fed 1H
Wellpath: 1H
Plan: Plan #2



Azimuths to Grid North
True North -0.30°
Magnetic North 7.75°

Magnetic Field
Strength 49009nT
Dip Angle 60.32°
Date 5/6/2008
Model igr2005

SITE DETAILS

NPG 10 Fed 1H
Section 10, T23S, R31E
Eddy Co, NM

Site Centre Northing 478085.83
Easting 714399.11

Ground Level 3379.00
Positional Uncertainty 0.00
Convergence 0.30

FIELD DETAILS

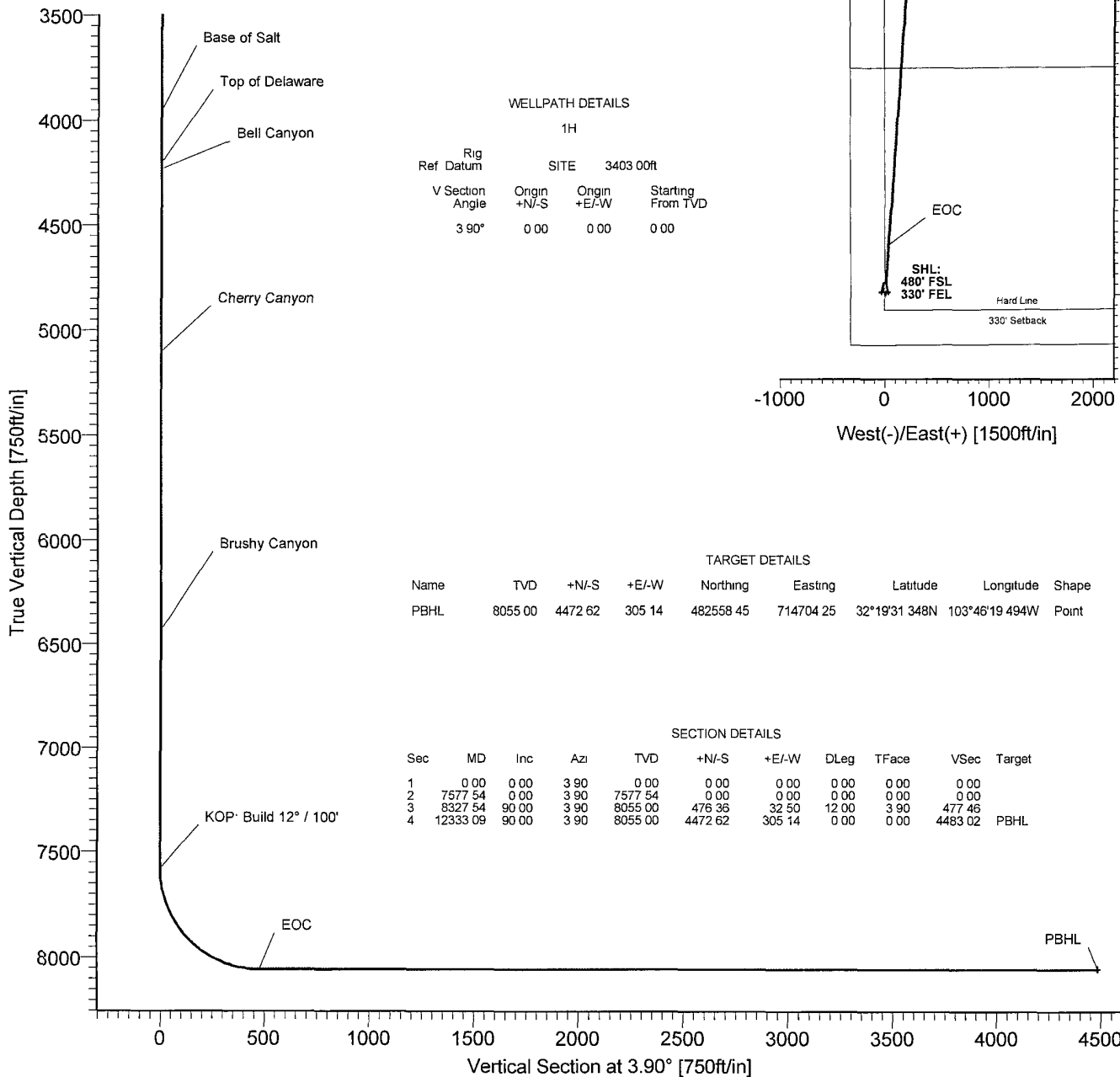
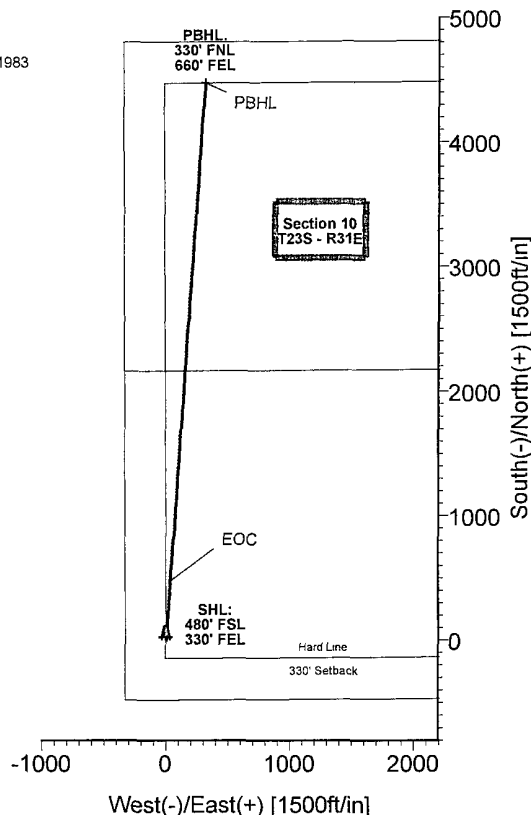
Eddy Co, NM
USA

Geodetic System US State Plane Coordinate System 1983
Ellipsoid GRS 1980
Zone New Mexico, Eastern Zone
Magnetic Model igr2005

System Datum Mean Sea Level
Local North Grid North

WELLPATH DETAILS

1H			
Rig Ref Datum	SITE	3403.00ft	
V Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
3.90°	0.00	0.00	0.00



TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL	8055.00	4472.62	305.14	482558.45	714704.25	32°19'31.348N	103°46'19.494W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	
2	7577.54	0.00	3.90	7577.54	0.00	0.00	0.00	0.00	0.00	
3	8327.54	90.00	3.90	8055.00	476.36	32.50	12.00	3.90	477.46	
4	12333.09	90.00	3.90	8055.00	4472.62	305.14	0.00	0.00	4483.02	PBHL

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



Plan: Plan #2 (10 Fed 1H/1H)
Created By Kevin Carr Date 5/14/2008
Checked _____ Date _____
Reviewed _____ Date _____
Approved _____ Date _____

Company: DEVON ENERGY CORPORATION
Field: Eddy Co, NM
Site: NPG 10 Fed 1H
Well: 10 Fed 1H
Wellpath: 1H

Date: 5/14/2008 Time: 07:53:24 Page: 1
Co-ordinate(NE) Reference Site: NPG 10 Fed 1H, Grid North
Vertical (TVD) Reference: SITE 3403.0
Section (VS) Reference: Well (0.00N,0.00E,3.90Azi)
Plan: Plan #2

Field: Eddy Co, NM

USA
Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2005

Site: NPG 10 Fed 1H
Section 10, T23S, R31E
Eddy Co, NM

Site Position: Northing: 478085.83 ft Latitude: 32 18 47.106 N
From: Map Easting: 714399.11 ft Longitude: 103 46 23.322 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3379.00 ft Grid Convergence: 0.30 deg

Well: 10 Fed 1H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 478085.83 ft Latitude: 32 18 47.106 N
+E/-W 0.00 ft Easting: 714399.11 ft Longitude: 103 46 23.322 W
Position Uncertainty: 0.00 ft

Wellpath: 1H

Current Datum: SITE Height 3403.00 ft
Magnetic Data: 5/6/2008
Field Strength: 49009 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.05 deg
Mag Dip Angle: 60.32 deg
+E/-W Direction
ft deg
0.00 3.90

Plan: Plan #2

Date Composed: 5/6/2008
Version: 1
Tied-to: From Surface

Principal: Yes

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7577.54	0.00	3.90	7577.54	0.00	0.00	0.00	0.00	0.00	0.00	
8327.54	90.00	3.90	8055.00	476.36	32.50	12.00	12.00	0.00	3.90	
12333.09	90.00	3.90	8055.00	4472.62	305.14	0.00	0.00	0.00	0.00	PBHL

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
7577.54	0.00	3.90	7577.54	0.00	0.00	0.00	0.00	0.00	0.00	KOP: Build 12° / 100'
7600.00	2.70	3.90	7599.99	0.53	0.04	0.53	12.00	12.00	0.00	
7625.00	5.70	3.90	7624.92	2.35	0.16	2.36	12.00	12.00	0.00	
7650.00	8.70	3.90	7649.72	5.48	0.37	5.49	12.00	12.00	0.00	
7675.00	11.70	3.90	7674.32	9.89	0.67	9.91	12.00	12.00	0.00	
7700.00	14.70	3.90	7698.66	15.58	1.06	15.62	12.00	12.00	0.00	
7725.00	17.70	3.90	7722.67	22.54	1.54	22.59	12.00	12.00	0.00	
7750.00	20.70	3.90	7746.27	30.74	2.10	30.81	12.00	12.00	0.00	
7775.00	23.70	3.90	7769.42	40.16	2.74	40.25	12.00	12.00	0.00	
7800.00	26.70	3.90	7792.04	50.78	3.46	50.90	12.00	12.00	0.00	
7825.00	29.70	3.90	7814.07	62.56	4.27	62.71	12.00	12.00	0.00	
7850.00	32.70	3.90	7835.45	75.48	5.15	75.65	12.00	12.00	0.00	
7875.00	35.70	3.90	7856.13	89.49	6.11	89.70	12.00	12.00	0.00	
7900.00	38.70	3.90	7876.04	104.57	7.13	104.81	12.00	12.00	0.00	
7925.00	41.70	3.90	7895.13	120.67	8.23	120.95	12.00	12.00	0.00	
7950.00	44.70	3.90	7913.36	137.74	9.40	138.06	12.00	12.00	0.00	
7975.00	47.70	3.90	7930.66	155.74	10.62	156.10	12.00	12.00	0.00	

Company: DEVON ENERGY CORPORATION
Field: Eddy Co, NM
Site: NPG 10 Fed 1H
Well: 10 Fed 1H
Wellpath: 1H

Date: 5/14/2008 **Time:** 07:53:24
Co-ordinate(NE) Reference Site: NPG 10 Fed 1H, Grid North
Vertical (TVD) Reference: SITE 3403.0
Section (VS) Reference: Well (0.00N,0.00E,3 90Azi)
Plan: Plan #2

Page: 2

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
8000.00	50.70	3.90	7946.99	174.61	11.91	175.02	12.00	12.00	0.00	
8025.00	53.70	3.90	7962.32	194.32	13.26	194.77	12.00	12.00	0.00	
8050.00	56.70	3.90	7976.58	214.80	14.65	215.30	12.00	12.00	0.00	
8075.00	59.70	3.90	7989.76	235.99	16.10	236.54	12.00	12.00	0.00	
8100.00	62.70	3.90	8001.80	257.85	17.59	258.44	12.00	12.00	0.00	
8125.00	65.70	3.90	8012.68	280.30	19.12	280.95	12.00	12.00	0.00	
8150.00	68.70	3.90	8022.37	303.29	20.69	303.99	12.00	12.00	0.00	
8175.00	71.70	3.90	8030.84	326.75	22.29	327.51	12.00	12.00	0.00	
8200.00	74.70	3.90	8038.07	350.63	23.92	351.44	12.00	12.00	0.00	
8225.00	77.70	3.90	8044.03	374.84	25.57	375.72	12.00	12.00	0.00	
8250.00	80.70	3.90	8048.72	399.34	27.24	400.27	12.00	12.00	0.00	
8275.00	83.70	3.90	8052.11	424.05	28.93	425.04	12.00	12.00	0.00	
8300.00	86.70	3.90	8054.21	448.90	30.63	449.94	12.00	12.00	0.00	
8325.00	89.70	3.90	8054.99	473.83	32.33	474.93	12.00	12.00	0.00	EOC
8327.54	90.00	3.90	8055.00	476.36	32.50	477.46	12.00	12.00	0.00	
8400.00	90.00	3.90	8055.00	548.65	37.43	549.93	0.00	0.00	0.00	
8500.00	90.00	3.90	8055.00	648.42	44.24	649.93	0.00	0.00	0.00	
8600.00	90.00	3.90	8055.00	748.19	51.04	749.93	0.00	0.00	0.00	
8700.00	90.00	3.90	8055.00	847.96	57.85	849.93	0.00	0.00	0.00	
8800.00	90.00	3.90	8055.00	947.73	64.66	949.93	0.00	0.00	0.00	
8900.00	90.00	3.90	8055.00	1047.49	71.46	1049.93	0.00	0.00	0.00	
9000.00	90.00	3.90	8055.00	1147.26	78.27	1149.93	0.00	0.00	0.00	
9100.00	90.00	3.90	8055.00	1247.03	85.08	1249.93	0.00	0.00	0.00	
9200.00	90.00	3.90	8055.00	1346.80	91.88	1349.93	0.00	0.00	0.00	
9300.00	90.00	3.90	8055.00	1446.57	98.69	1449.93	0.00	0.00	0.00	
9400.00	90.00	3.90	8055.00	1546.34	105.50	1549.93	0.00	0.00	0.00	
9500.00	90.00	3.90	8055.00	1646.10	112.30	1649.93	0.00	0.00	0.00	
9600.00	90.00	3.90	8055.00	1745.87	119.11	1749.93	0.00	0.00	0.00	
9700.00	90.00	3.90	8055.00	1845.64	125.92	1849.93	0.00	0.00	0.00	
9800.00	90.00	3.90	8055.00	1945.41	132.72	1949.93	0.00	0.00	0.00	
9900.00	90.00	3.90	8055.00	2045.18	139.53	2049.93	0.00	0.00	0.00	
10000.00	90.00	3.90	8055.00	2144.94	146.34	2149.93	0.00	0.00	0.00	
10100.00	90.00	3.90	8055.00	2244.71	153.14	2249.93	0.00	0.00	0.00	
10200.00	90.00	3.90	8055.00	2344.48	159.95	2349.93	0.00	0.00	0.00	
10300.00	90.00	3.90	8055.00	2444.25	166.76	2449.93	0.00	0.00	0.00	
10400.00	90.00	3.90	8055.00	2544.02	173.56	2549.93	0.00	0.00	0.00	
10500.00	90.00	3.90	8055.00	2643.78	180.37	2649.93	0.00	0.00	0.00	
10600.00	90.00	3.90	8055.00	2743.55	187.18	2749.93	0.00	0.00	0.00	
10700.00	90.00	3.90	8055.00	2843.32	193.98	2849.93	0.00	0.00	0.00	
10800.00	90.00	3.90	8055.00	2943.09	200.79	2949.93	0.00	0.00	0.00	
10900.00	90.00	3.90	8055.00	3042.86	207.60	3049.93	0.00	0.00	0.00	
11000.00	90.00	3.90	8055.00	3142.62	214.40	3149.93	0.00	0.00	0.00	
11100.00	90.00	3.90	8055.00	3242.39	221.21	3249.93	0.00	0.00	0.00	
11200.00	90.00	3.90	8055.00	3342.16	228.01	3349.93	0.00	0.00	0.00	
11300.00	90.00	3.90	8055.00	3441.93	234.82	3449.93	0.00	0.00	0.00	
11400.00	90.00	3.90	8055.00	3541.70	241.63	3549.93	0.00	0.00	0.00	
11500.00	90.00	3.90	8055.00	3641.46	248.43	3649.93	0.00	0.00	0.00	
11600.00	90.00	3.90	8055.00	3741.23	255.24	3749.93	0.00	0.00	0.00	
11700.00	90.00	3.90	8055.00	3841.00	262.05	3849.93	0.00	0.00	0.00	
11800.00	90.00	3.90	8055.00	3940.77	268.85	3949.93	0.00	0.00	0.00	
11900.00	90.00	3.90	8055.00	4040.54	275.66	4049.93	0.00	0.00	0.00	
12000.00	90.00	3.90	8055.00	4140.31	282.47	4149.93	0.00	0.00	0.00	
12100.00	90.00	3.90	8055.00	4240.07	289.27	4249.93	0.00	0.00	0.00	

Company: DEVON ENERGY CORPORATION
Field: Eddy Co, NM
Site: NPG 10 Fed 1H
Well: 10 Fed 1H
Wellpath: 1H

Date: 5/14/2008 **Time:** 07:53:24 **Page:** 3
Co-ordinate(NE) Reference: Site. NPG 10 Fed 1H, Grid North
Vertical (TVD) Reference: SITE 3403.0
Section (VS) Reference: Well (0.00N,0.00E,3.90Azi)
Plan: Plan #2

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
12200.00	90.00	3.90	8055.00	4339.84	296.08	4349.93	0.00	0.00	0.00	
12300.00	90.00	3.90	8055.00	4439.61	302.89	4449.93	0.00	0.00	0.00	
12333.09	90.00	3.90	8055.00	4472.62	305.14	4483.02	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
PBHL		8055.00	4472.62	305.14	482558.45	714704.25	32	19	31.348 N	103	46	19.494 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
470.00	470.00	Rustler		0.00	0.00
910.00	910.00	Top of Salt		0.00	0.00
3947.00	3947.00	Base of Salt		0.00	0.00
4199.00	4199.00	Top of Delaware		0.00	0.00
4229.00	4229.00	Bell Canyon		0.00	0.00
5099.00	5099.00	Cherry Canyon		0.00	0.00
6428.00	6428.00	Brushy Canyon		0.00	0.00

Annotation

MD ft	TVD ft	
7577.54	7577.54	KOP: Build 12° / 100'
8327.54	8055.00	EOC

Nov 10 05 02:10p

505 7485211

P.1

Aug 23 04 08:10a

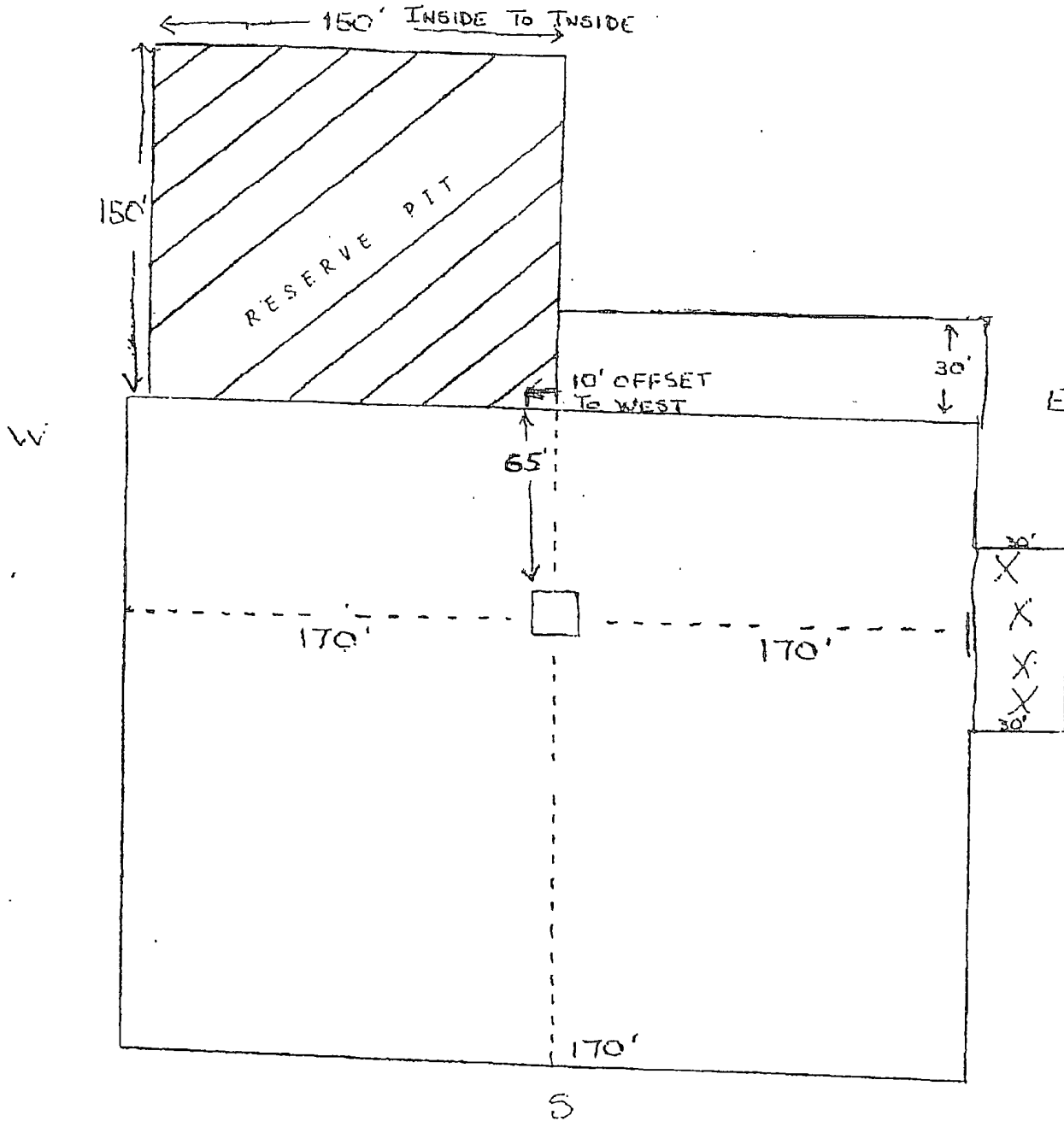
P.2



McVAY DRILLING COMPANY
Post Office Box 924
Hobbs, New Mexico 88241
(505) 397-3311
(505) 393-3744

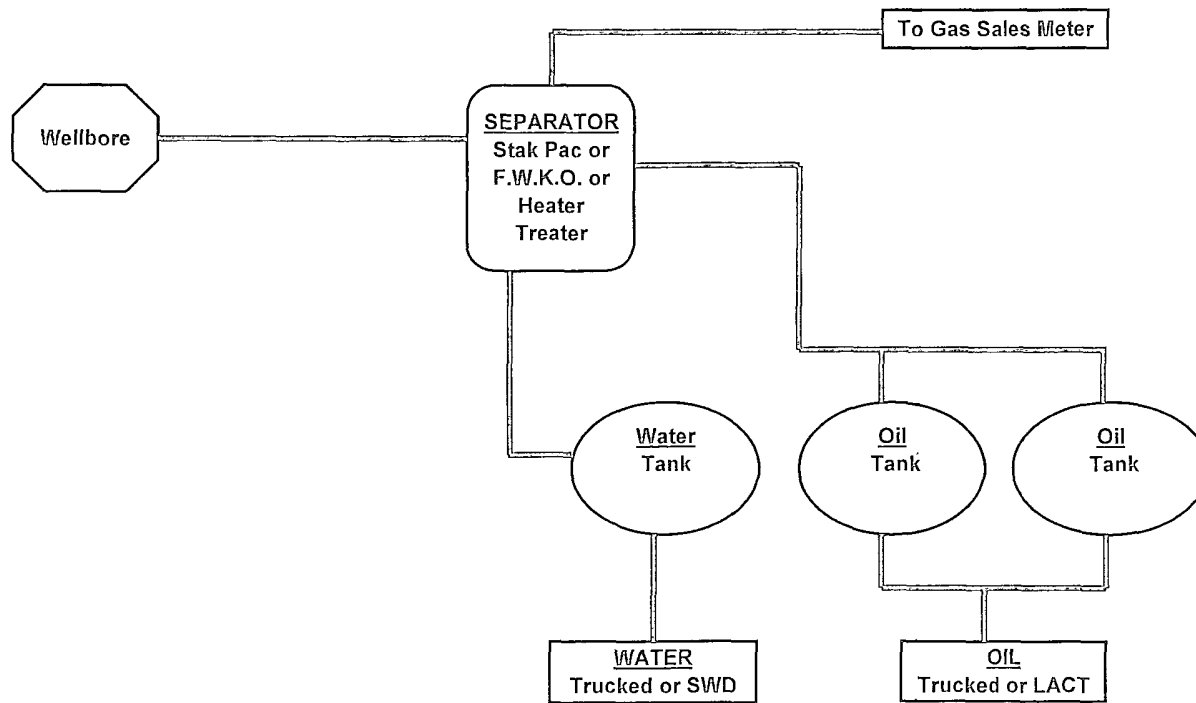
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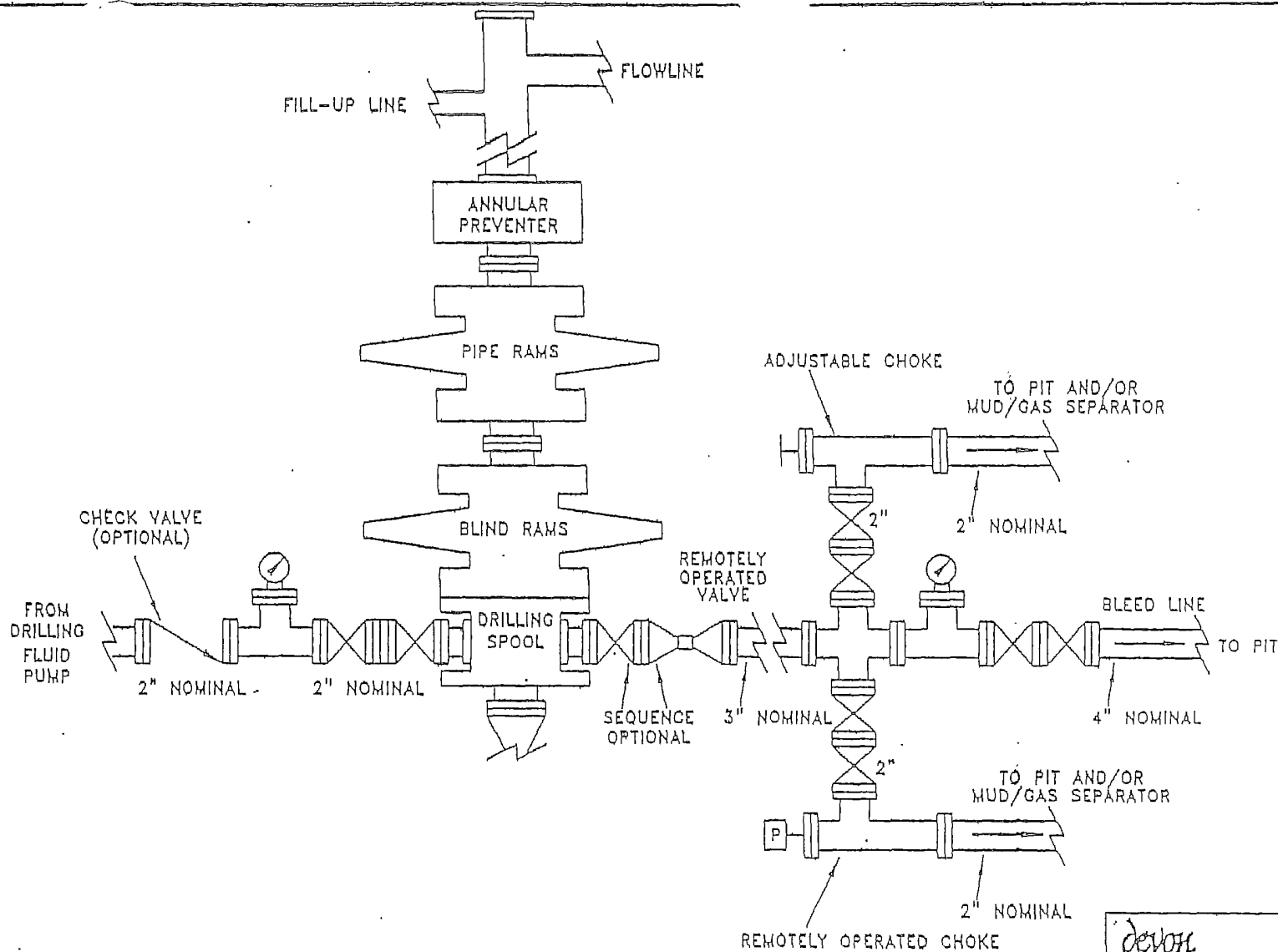
McVAY 7



DEVON ENERGY PRODUCTION COMPANY LP

General Production Facilities Diagram





7/1/01
A

si\\...nm\plots	
5mbope.dwg	

devon

EXHIBIT 1

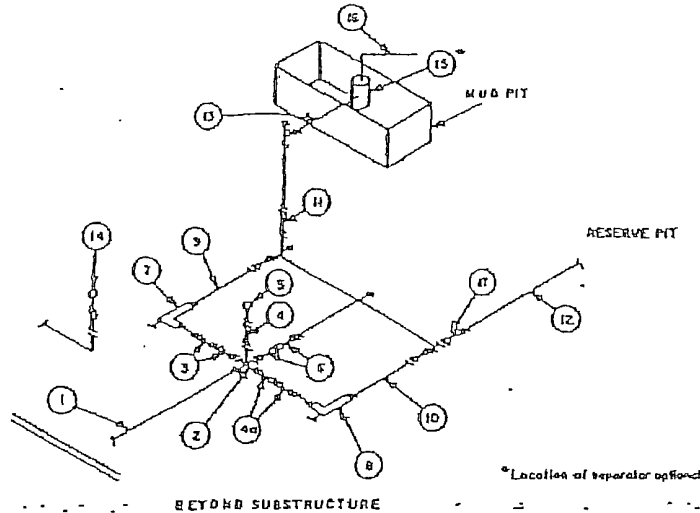
PROPOSED 5-M BOPE
AND CHOKES ARRANGEMENT

SC

MINIMUM CHOKE MANIFOLD
3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP

Exhibit E



MINIMUM REQUIREMENTS										
No.		3,000 MWP			5,000 MWP			10,000 MWP		
		LD.	NOMINAL	RATING	LD.	NOMINAL	RATING	LD.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3"x3"x3"x2" Cross 5"x3"x3"x3"			3,000			5,000			10,000
3	Valves(1) Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
4	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		3"	10,000
11	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
12	Lines		3"	1,000		3"	1,000		3"	2,000
13	Lines		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2"x5"			2"x5"			2"x5"	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/> (2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000

(1) Only one required in Class JM.

(2) Gate valves only shall be used for Class 10M.

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- All lines shall be securely anchored.
- Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make turns by large bends or 90° bends using bull plugged tees.
- Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.

Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
North Pure Gold 10 Federal 1H

Surface Location: 480' FSL & 330' FWL, Unit M, Sec 10 T23S R31E, Eddy, NM
Bottom hole Location: 330' FNL & 660' FWL, Unit D, Sec 10 T23S R31E, Eddy, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - a. Characteristics of H₂S
 - b. Physical effects and hazards
 - c. Proper use of safety equipment and life support systems.
 - d. Principle and operation of H₂S detectors, warning system and briefing areas
 - e. Evacuation procedures, routes and first aid.
 - f. Proper use of 30-minute pressure demand air pack.
 2. H₂S Detection and Alarm System
 - a. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
 3. Windsock and/or wind streamers
 - a. Windsock at mud pit area should be high enough to be visible
 - b. Windsock at briefing area should be high enough to be visible
 - c. There should be a windsock at entrance to location
 4. Condition Flags and Signs
 - a. Warning Sign on access road to location
 - b. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H₂S present in dangerous concentration. Only emergency personnel admitted to location.
 5. Well Control Equipment
 - a. See Exhibit "E" & "E-1"
 6. Communication
 - a. While working under masks chalkboards will be used for communication.
 - b. Hand signals will be used where chalk board is inappropriate
 - c. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
 7. Drill stem Testing
 - a. Exhausts will be watered
 - b. Flare line will be equipped with an electric igniter or a propane pilot light in case gas reaches the surface.
 - c. If the location is near to a dwelling a closed DST will be performed.
 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.

If H₂S is encountered, mud system will be altered if necessary to maintain control or formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.
-

SURFACE USE PLAN

Devon Energy Production Company, LP

North Pure Gold 10 Federal 1H

Surface Location: 480 FSL & 330 FWL, Unit M, Sec 10 T23S R31E, Eddy, NM

Bottom hole Location: 330 FNL & 660 FWL, Unit D, Sec 10 T23S R31E, Eddy, NM

1. Existing Roads:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Basin Surveys.
- b. All roads into the location are depicted on Exhibit 3.
- c. Directions to Location: From mile marker 18 on State Hwy 128, go west 0.5 miles to Co. Rd 798, on Co Rd 798 go north 2.1 miles to lease road, on lease road go west 1.6 miles to lease road, on lease road go north 1.2 miles to proposed lease road.

2. New or Reconstructed Access Roads:

- a. Exhibit 3 shows the existing lease road. Approximately 4134.2' of new access road will be constructed as follows.
- b. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

One Mile Radius Plat shows all existing and proposed wells within a one-mile radius of the proposed location. See attached plat.

4. Location of Existing and/or Proposed Production Facilities:

- a. In the event the well is found productive, flow line to North Pure Gold 10J Federal 10 tank battery would be utilized and the necessary production equipment will be installed at the well site. See Production Facilities Layout diagram.
- b. If necessary, the well will be operated by means of an electric prime mover. Electric power poles will be set along side of the access road.
- c. All flow lines will adhere to API standards.
- d. If the well is productive, rehabilitation plans are as follows:
 - i. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after completion, weather permitting).
 - ii. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

5. Location and Types of Water Supply:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads shown in the C-102. On occasion,

water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorization will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

6. Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of 6" rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

7. Methods of Handling Waste Material:

- a. Drill cuttings will be disposed of in the reserve pits.
- b. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up salts remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for further drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approved disposal site. Later pits will be broken out to speed dry. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. American Production Service Inc, Odessa TX
 - ii. Gandy Corporation, Lovington NM
 - iii. I & W Inc, Loco Hill NM
 - iv. Jims Water Service of Co Inc, Denver CO

8. Ancillary Facilities: No campsite or other facilities will be constructed as a result of this well.

9. Well Site Layout

- a. Exhibit D shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- c. Mud pits in the active circulating system will be steel pits & the reserve pit will be lined.
- d. If needed, the reserve pit is to be lined with polyethylene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
- e. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased to preclude endangering wildlife.

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these efforts are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography. Will close the pits per OCD compliance regulations.
- b. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and location leveled, weather permitting, within 120 days after abandonment.
- c. The location and road will be rehabilitated as recommended by the BLM.
- d. If the well is a producer, the reserve pit fence will be torn down after the pit contents have dried. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- e. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

11. Surface Ownership

- a. The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.
- b. The proposed road routes and the surface location will be restored as directed by the BLM.

12. Other Information:

- a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, sagebush, yucca and miscellaneous weeds. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by Southern New Mexico Archaeological Services, Inc. and forwarded to the BLM office in Carlsbad, New Mexico.

13. Bond Coverage:

Bond Coverage is Nationwide; Bond # is CO-1104

Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Jim Cromer
Operations Engineer Advisor
Devon Energy Production Company, L.P.
20 North Broadway
Oklahoma City, OK 73102-8260
(405) 228-4464 (office)
(405) 694-7718 (Cellular)

Don Mayberry
Superintendent
Devon Energy Production Company, L.P.
Post Office Box 250
Artesia, NM 88211-0250
(505) 748-0164 (office)
(505) 748-5235 (Cellular)


Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 14th day of May, 2008.

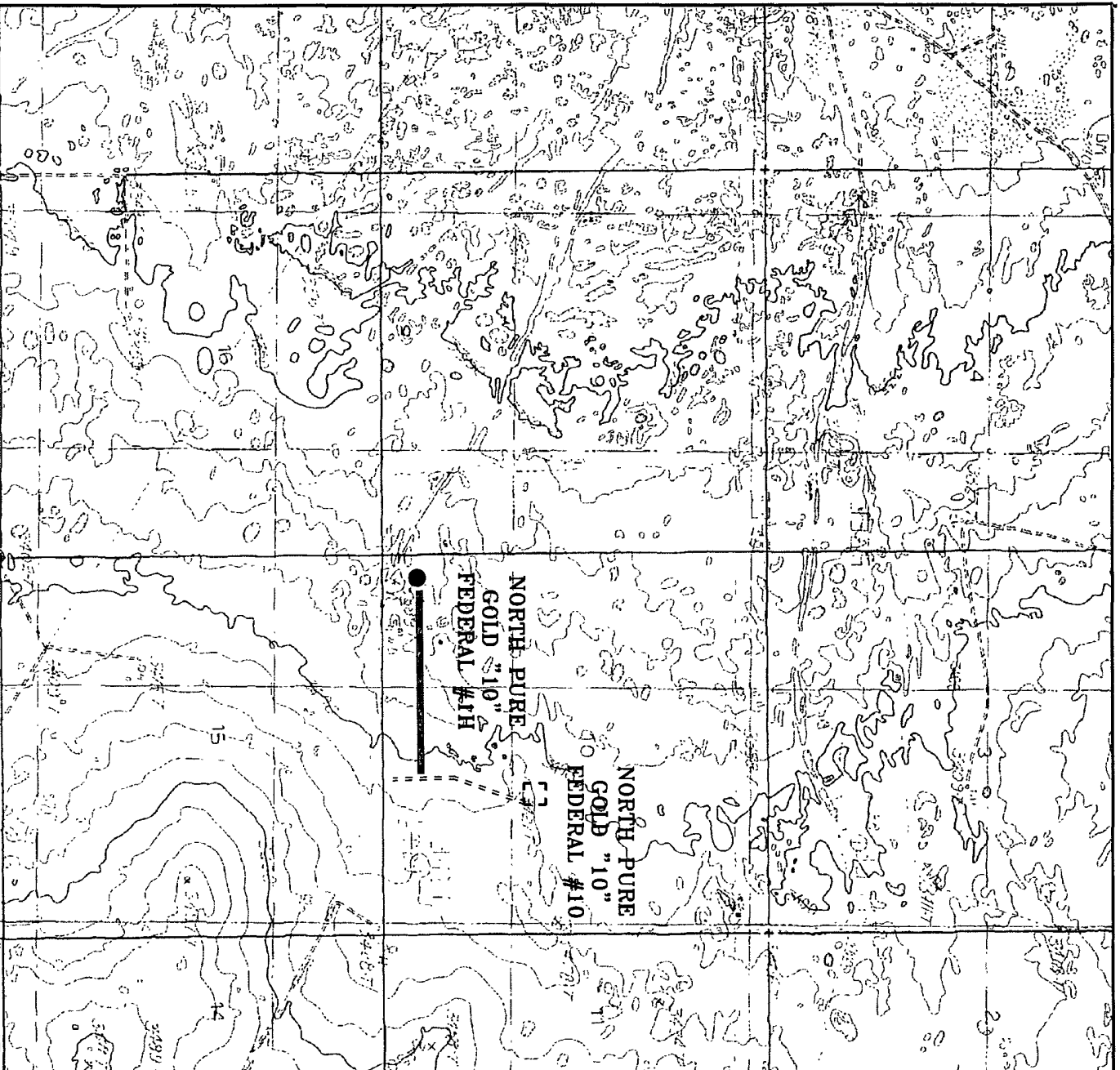
Printed Name: Judy A. Barnett

Signed Name: 

Position Title: Regulatory Analyst

Address: 20 North Broadway, OKC OK 73102

Telephone: (405)-228-8699

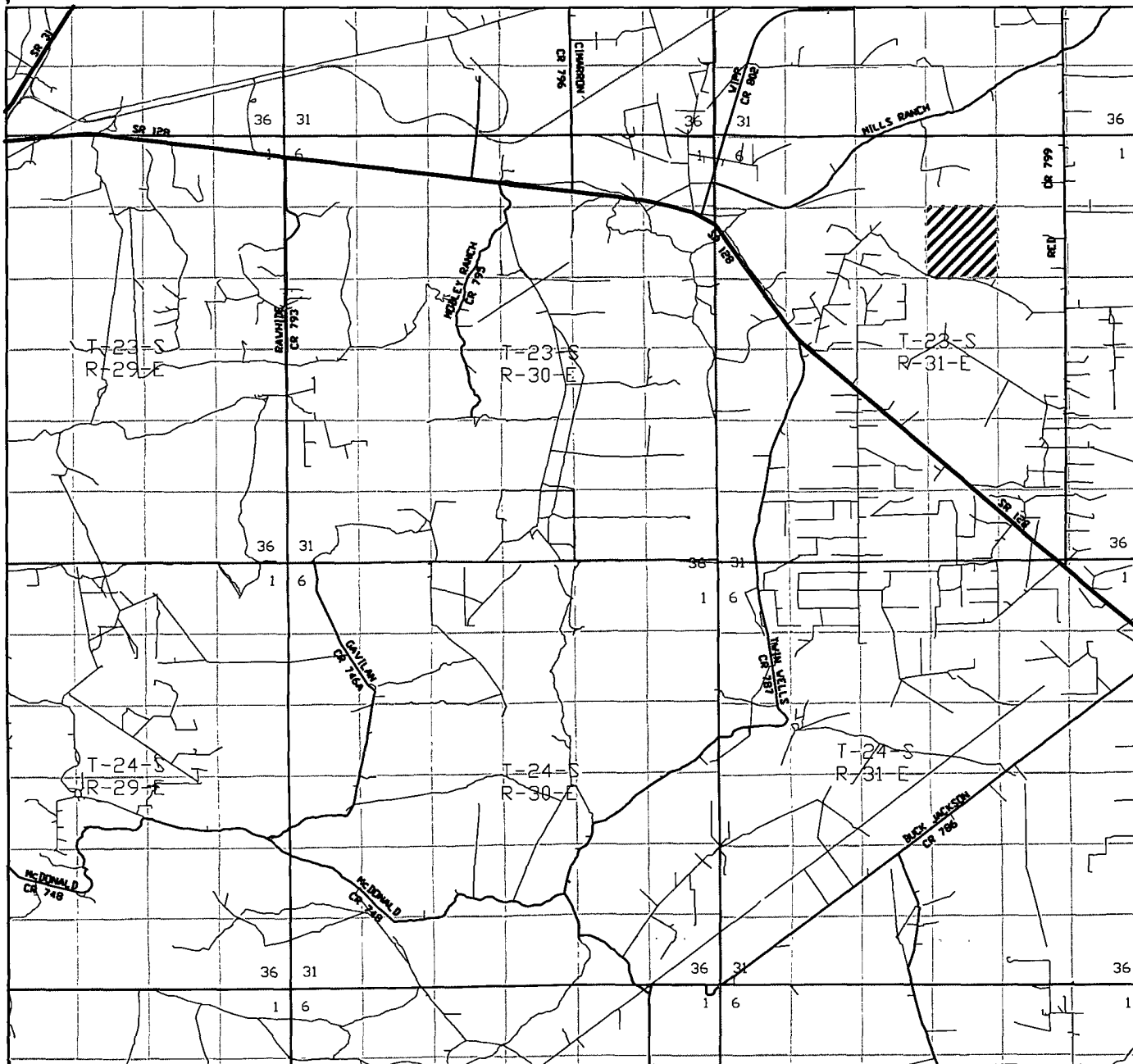


NORTH PURE GOLD "10" FEDERAL #1H
Located at 480' FSL AND 330' FWL
Section 10, Township 23 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.

basin
surveys
P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com
focused on excellence
in the oilfield

W.O. Number: JMS 19189T
Survey Date: 02-18-2008
Scale: 1" = 2000'
Date: 02-25-2008

DEVON ENERGY
PROD. CO., L.P.



NORTH PURE GOLD "10" FEDERAL #1H
 Located at 480' FSL AND 330' FEL
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W.O. Number: JMS 19189TR

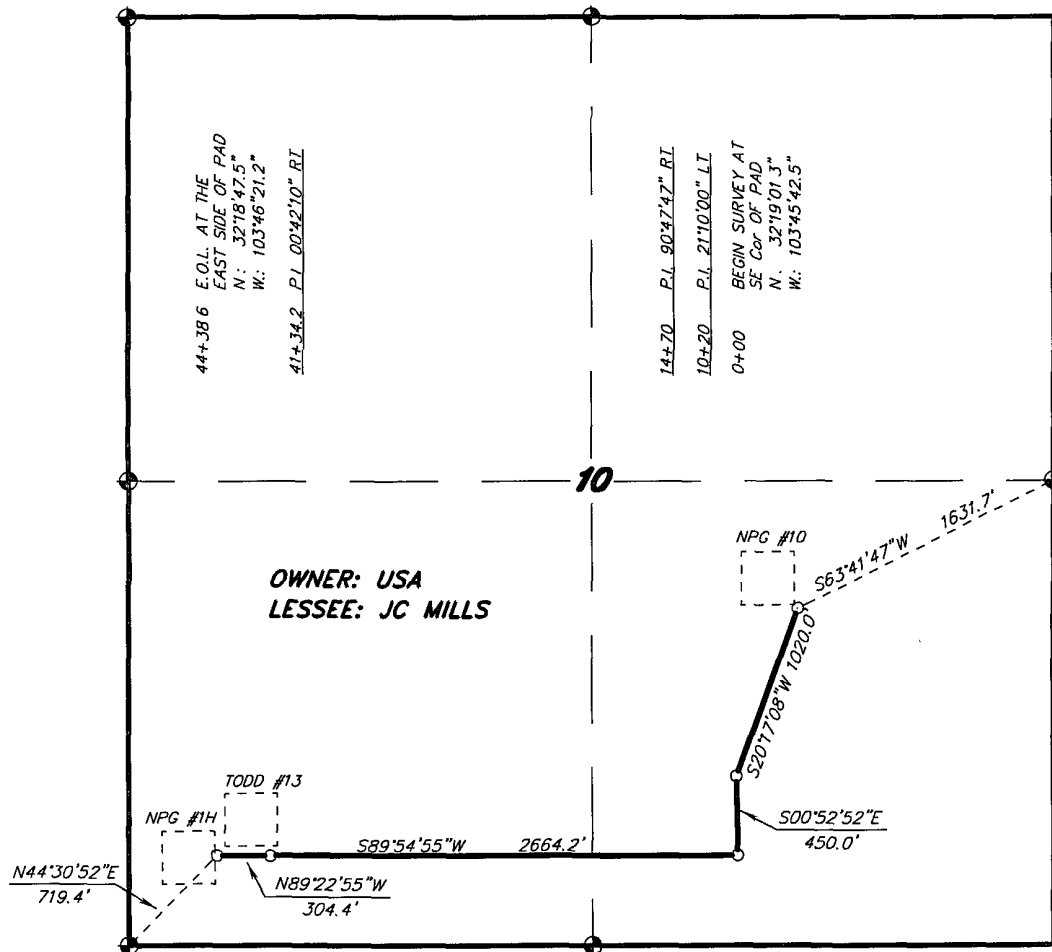
Survey Date: 02-18-2008

Scale: 1" = 2 MILES

Date: 02-25-2008

DEVON ENERGY
 PROD. CO., L.P.

SECTION 10, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



OWNER: USA
LESSEE: JC MILLS

LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 10, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 10 = 2150.4 FEET = 0.41 MILES = 130.33 RODS = 1.48 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED IN THIS STATE.

GARY L. JOHNSON, L.S. No. 7977
J. M. SMALL, L.S. No. 5074

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 19189 Drawn By: J. M. SMALL

Date: 02-25-2008 Disk: JMS 19189P

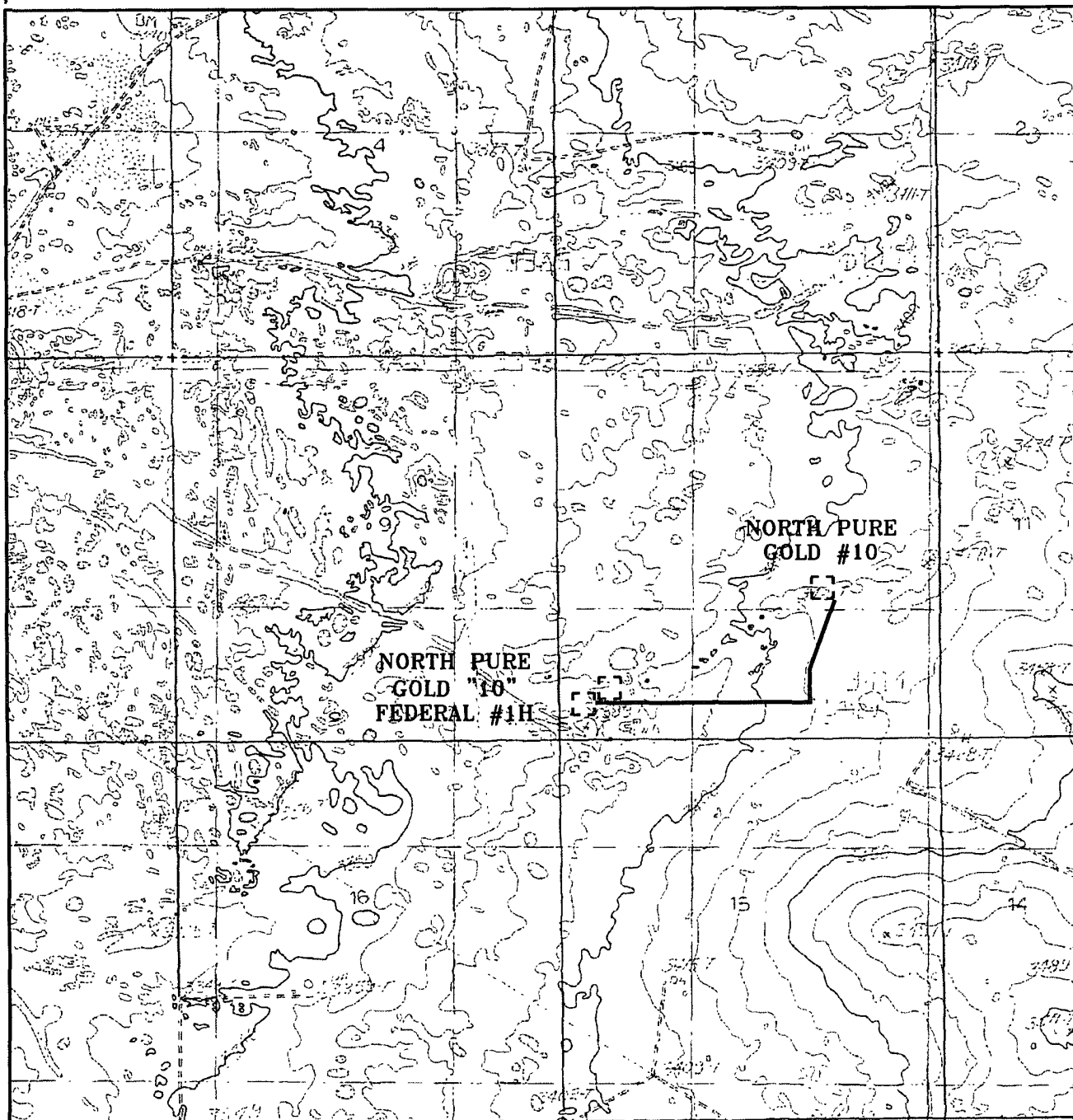
1000 0 1000 2000 FEET

DEVON ENERGY PROD. CO., L.P.

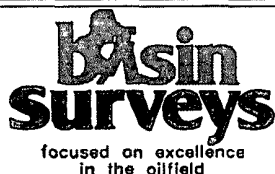
REF: PROPOSED PIPELINE TO THE NPG "10" FEDERAL #1H

A PIPELINE CROSSING USA LAND IN
SECTION 10, TOWNSHIP 23 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-18-2008 Sheet 1 of 1 Sheets



FLOWLINE TO THE NORTH PURE GOLD "10" FEDERAL #1H
Section 10, Township 23 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number: JMS 19189TT

Survey Date: 02-18-2008

Scale: 1" = 2000'

Date: 02-25-2008

DEVON ENERGY
PROD. CO., L.P.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY PRODUCTION COMPANY, LP
LEASE NO.:	NM-77046
WELL NAME & NO.:	North Pure Gold 10 Federal 1H
SURFACE HOLE FOOTAGE:	480' FSL & 330' FWL
BOTTOM HOLE FOOTAGE:	330' FNL & 660' FWL
LOCATION:	Section 10, T. 23 S., R. 31 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie Chicken
- ☐ **Construction**
 - Notification
 - Topsoil
 - Reserve Pit
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
- ☐ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
- ☐ **Reserve Pit Closure/Interim Reclamation**
- ☐ **Final Abandonment/Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. RESERVE PITS

The reserve pit shall be constructed and closed in accordance with the NMOCD rules.

The reserve pit shall be constructed 150' X 150' on the North side of the well pad.

The reserve pit shall be constructed, so that upon completion of drilling operations, the dried pit contents shall be buried a minimum depth of three feet below ground level. Should the pit content level not meet the three foot minimum depth requirement, the excess contents shall be removed until the required minimum depth of three feet below ground level has been met. The operator shall properly dispose of the excess contents at an authorized disposal site.

The reserve pit shall be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit. The berms surrounding the entire perimeter of the pit shall extend a minimum of two (2) feet above ground level. At no time will standing fluids in the pit be allowed to rise above ground level.

The reserve pit shall be fenced on three (3) sides during drilling operations. The fourth side shall be fenced immediately upon rig release.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

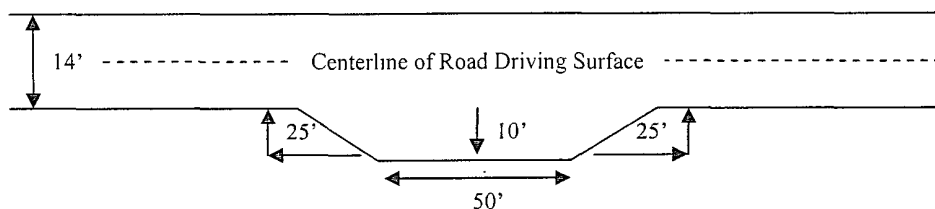
Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout – Plan View

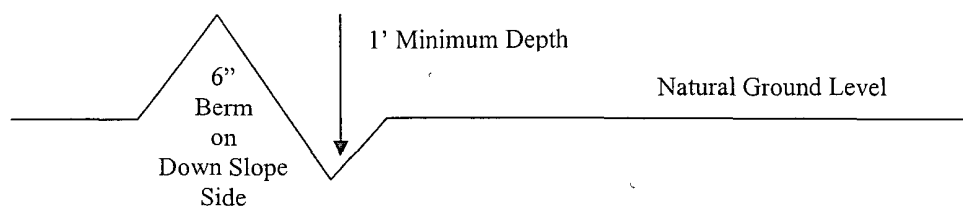


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

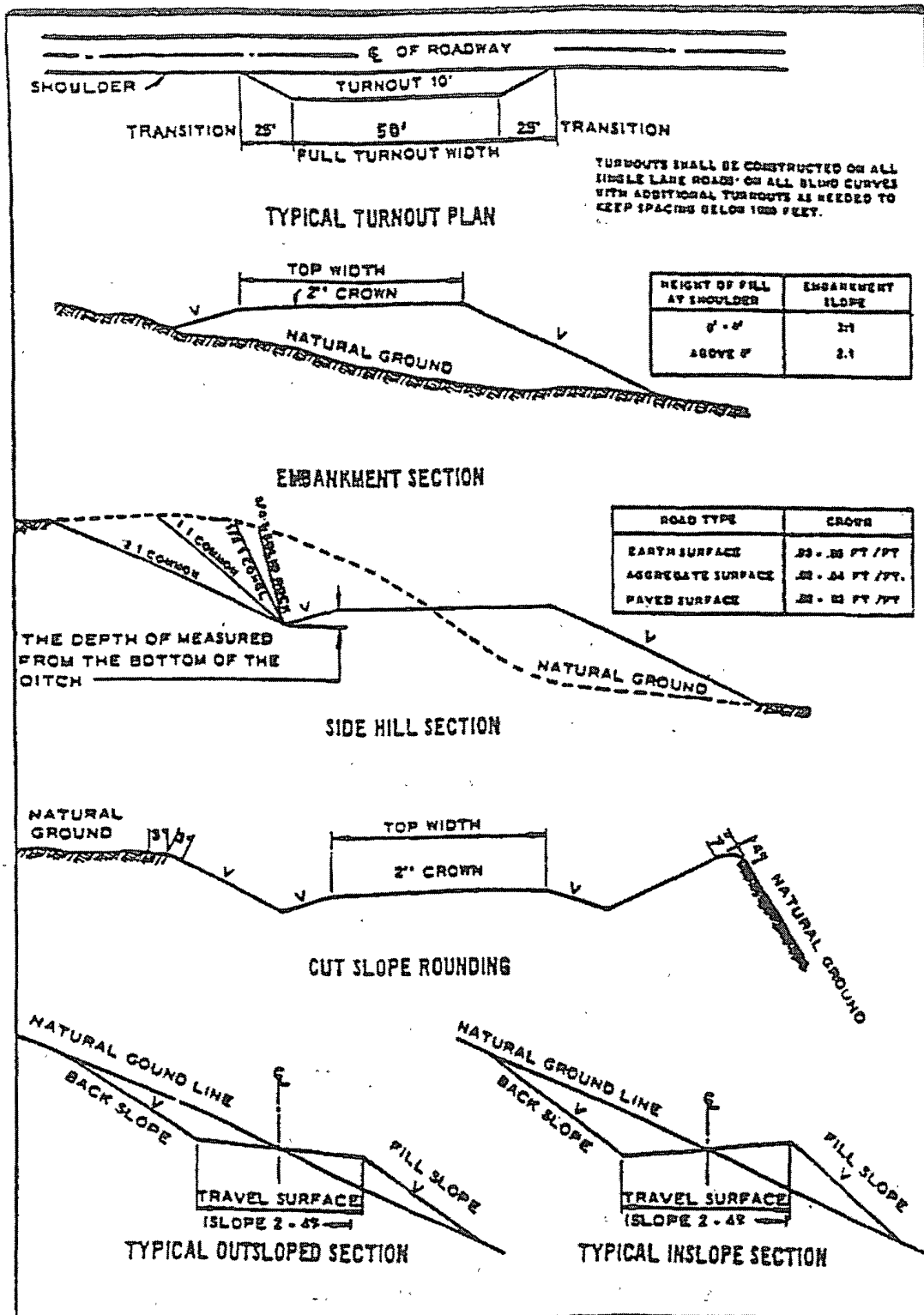
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. It has been reported in Section 3. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation in the Delaware and Bone Spring formations.

Possible brine and water flows in the Salado, Castile, Delaware, and Bone Spring formations.

1. The **13-3/8 inch** surface casing shall be set **at approximately 550 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt)** and cemented to the surface. **Fresh water mud to setting depth.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, **24 hours in the potash area**, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **9-5/8 inch** intermediate casing is:
 - ☒ Cement to surface. If cement does not circulate see B.1.a-d above. **Casing to be set at approximately 4300' in the Lamar Limestone or Bell Canyon formation.**

NOTE: THE INTERMEDIATE CASING IS TO BE SET BELOW THE SALT. BASED ON TOPS PRESENTED BY OPERATOR, THE CASING IS BEING SET IN THE SALT.

Centralizers required on horizontal leg, must be type for horizontal service and minimum of one every other joint.

3. The minimum required fill of cement behind the **5 1/2 inch** production casing is:
 - a. **First stage to DV tool, cement shall:**
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.

b. Second stage above DV tool, cement shall:

- ☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. **The variance for testing of the BOP/BOPE on the surface casing is not approved due to the inaccuracy of rig pump pressure readings and safety concerns when exceeding 1000 psi.**

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

WWI 061208

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the

release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 25 feet.
7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.
9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 15 through June 15 annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VIII. INTERIM RECLAMATION & RESERVE PIT CLOSURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

At the time reserve pits are to be reclaimed, operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESERVE PIT CLOSURE

The reserve pit, when dried and closed, shall be recontoured, all trash removed, and reseeded as follows:

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

**Four-winged Saltbush 5lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

(Insert Seed Mixture Here)

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.