

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Devon Energy Production Company, L. P. 20 North Broadway Oklahoma City, OK 73102-8260		² OGRID Number 6137
³ Property Code 30668		⁴ API Number 30-015-36078
⁵ Property Name Spud 16 State		⁶ Well No. 7H
⁹ Proposed Pool 1 Haroon Ranch; Delaware, NE		¹⁰ Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	23S	29E		910	North	810	West	Eddy

⁸ Proposed 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
M	16	23S	29E		330	South	430	West	Eddy

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 2970' GL
¹⁶ Multiple No	¹⁷ Proposed Depth TVD 6500' MD 10,365'	¹⁸ Formation Delaware Brushy Canyon	¹⁹ Contractor	²⁰ Spud Date 2/15/08
Depth to Groundwater 100'		Distance from nearest fresh water well 1000'		Distance from nearest surface water 1000'
Pit: Liner: Synthetic ☐ _____ mils thick Clay ☐ Pit Volume: _____ bbls Drilling Method: _____				
Closed-Loop System ☒ Fresh Water ☒ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48# H-40 ST&C	0' - 360'	375 sx Cl C	Surface
12 1/4"	9 5/8"	40# I-55 LT&C	0' - 2930'	1025 sx Cl C	Surface
7 7/8"	5 1/2"	17# I55 LTC	0' - 10,365'	1020 sx Cl C	2430'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

13 3/8" lead w/ 375 sx Cl C w/2% CaCl₂ + 1/8# sx CF. 9 5/8" lead w/ 720 sx 35:65 POZ C w/ 5% NaCl + 1/8# CF + 5#/sx LCM-1 + 6% Bentonite. Tail w/ 300 sx Cl C + 2% CaCl₂. 5 1/2" Lead w/ 1020 sx 60:40 POZ Cl H + 1% NaCl + 1% BA-10 + .75% EC-1 + 4% MPA-1 + .15% Diacel LWL.

Proposed Mud Circulation System:

Depth	Mud Wt	Visc	Fluid Loss	Type system
0'-360'	8.4-9.4	32-36	NC	Fresh Water
360'-2930	10.	28	NC	Brine Water
2930'- TD	8.4-9.0	28-40	12-8	Fresh Water

R-111-P

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARANT
DISTRICT II GEOLOGIST

Printed name: Judy A. Barnett

Title:

Title: Regulatory Analyst

Approval Date: FEB 07 2008

Expiration Date: FEB 07 2009

E-mail Address: Judith.Barnett@dvn.com

Date: 2/4/08

Phone: 405-228-8699

Conditions of Approval Attached ☐

DISTRICT I
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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	Pool Code 96878	Pool Name Harrison Ranch; Delaware; NE
Property Code	Property Name SPUD "16" STATE	Well Number 7H
OGRID No. 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY LP	Elevation 2970'

Surface Location

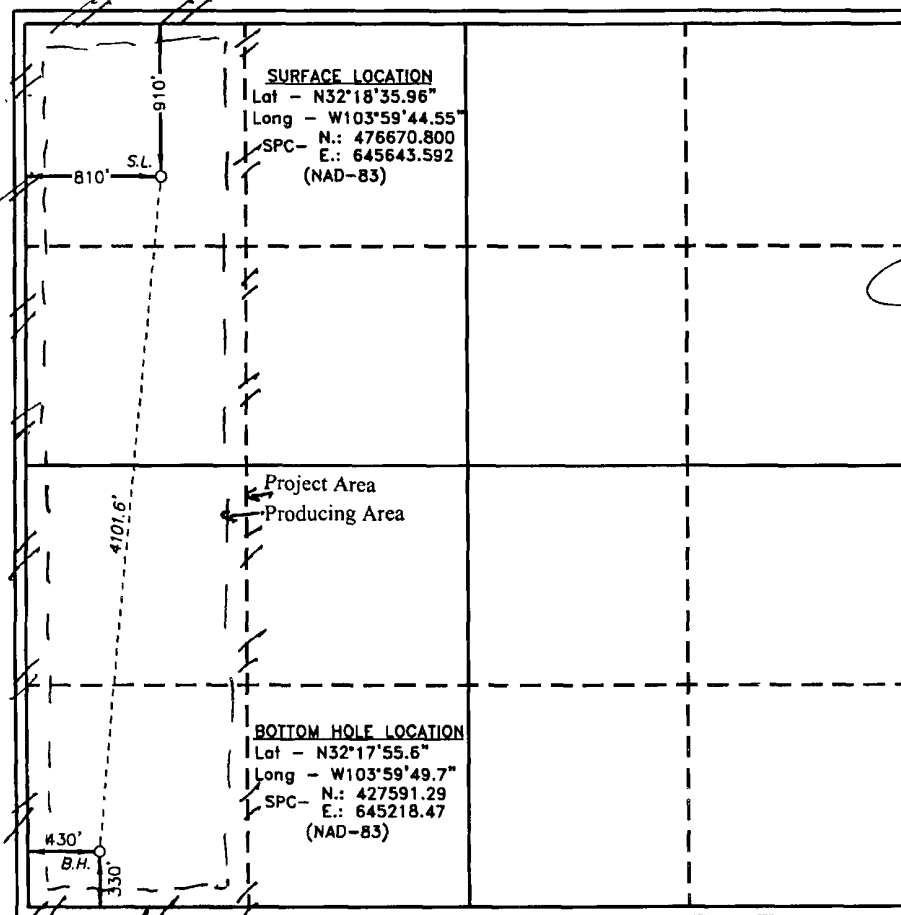
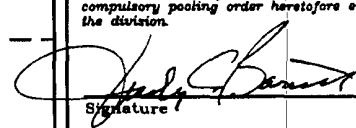
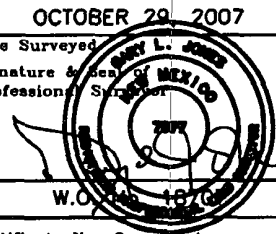
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	23 S	29 E		910	NORTH	810	WEST	EDDY

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
M	16	23 S	29 E		330	SOUTH	430	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

 SURFACE LOCATION Lat - N32°18'35.96" Long - W103°59'44.55" SPC- N.: 476670.800 E.: 645643.592 (NAD-83) BOTTOM HOLE LOCATION Lat - N32°17'55.6" Long - W103°59'49.7" SPC- N.: 427591.29 E.: 645218.47 (NAD-83)	OPERATOR CERTIFICATION 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.  1/31/08 Signature Date Judy A. Barnett Printed Name Regulatory Analyst SURVEYOR CERTIFICATION 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. OCTOBER 29, 2007 Date Surveyed  Signature of Professional Surveyor W.O. 18/08 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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The BOP will consist of a 5M system double ram type 5000 psi WP preventor w/ bag type Hydril preventor 5000 psi. All BOP's and associated equipment will be tested to 1200 psi w/ rig pump before drilling out the 13 3/8" casing shoe (70% of 48#, H-40 casing). The estimated BHP is 2800 psi and th estimated BHT is 130.

There is no known presence of H2S in this area. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2500 psi and Estimated BHT 110 degrees.

See attached C-102

See attached Potash Waiver

See attached Directional Path



Mosaic Potash Carlsbad Inc.
PO Box 71
1361 Potash Mines Road
Carlsbad, NM 88220
www.mosaicco.com

Tel 505-887-2871
Fax 505-887-0589

January 29, 2008

Devon Energy Production Company
20 North Broadway
Oklahoma City, Oklahoma 73102-8260
Attn: Ken Gray, Senior Land Advisor

Gentlemen:

We are in receipt of your letter dated January 25, 2008. Mosaic Potash Carlsbad Inc. does not object to the location of Devon Energy's Application to Drill the Spud 16 State #7H, 910' FNL, 810' FWL, of Section 16, Township 23 South, Range 29 East, NMPM. This location over ½ mile from an area designated as measured ore by the BLM, and from Mosaic's LMR containing valuable potash ore. It is also in an area previously drilled for gas and should therefore pose no additional hazard to potash mining. We are very much in support of the use of directional wells such as this one and we hope such technologies will be used to limit the impact of oil and gas wells upon potash at other locations within the Secretary's Potash Area.

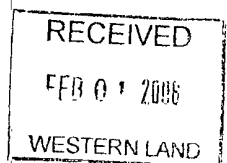
As more information becomes available, our estimates of the extent of potash resources in any given area may change. Therefore, please consider this "no objection" to this location to be valid for one year only. If you are still considering this well location at a date later than one year from today, notify us again at that time so we can make the decision on information current at that time. Do not consider a "no objection offered" or an "objection offered" decision to be permanent.

Mosaic Potash Carlsbad Inc. hereby does not object to the drilling of a well at this location.

Sincerely,

Dan Morehouse
Mine Engineering Superintendent

cc: Don Purvis Pete Livingstone
Charlie High



Permit Conditions of Approval

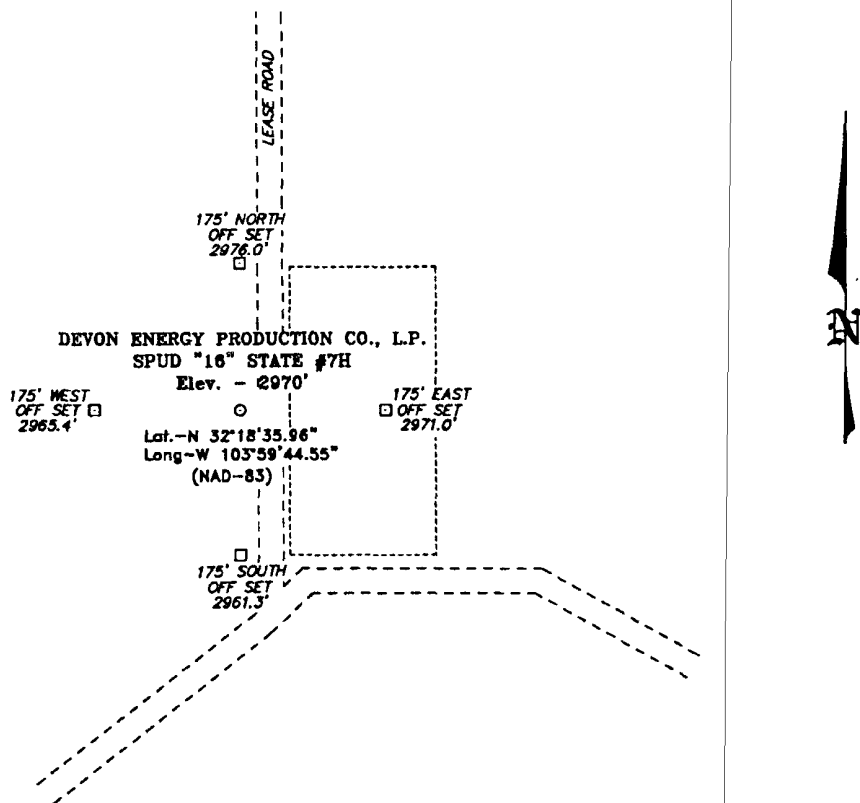
Operator: DEVON ENERGY PRODUCTION COMPANY, LP , 6137

Well: 55001-10 STATE #0000

API: 55001-10000

OCD Reviewer	Condition	
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19 15 2.50, and the Pit and Below-Grade Tank Guidelines	
BArrant	Operator to set surface casing above Salado formation. Please refer to offset e-logs & other geological data for more information.	

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 29 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF STATE HWY 128 AND CO.
RD. 793 (RAWHIDE), GO SOUTH 3.5 MILES TO LEASE
ROAD, ON LEASE ROAD GO WEST 3.0 MILES TO
LEASE ROAD, ON LEASE ROAD GO NORTH 0.7 MILES
TO TO LEASE ROAD, ON LEASE ROAD GO WEST TO
PROPOSED LOCATION.

DEVON ENERGY PROD. CO., L.P.

REF: SPUD "16" STATE #7H / WELL PAD TOPO

THE SPUD "16" STATE #7H LOCATED 910'

FROM THE NORTH LINE AND 810' FROM THE WEST LINE OF

SECTION 16, TOWNSHIP 23 SOUTH, RANGE 29 EAST,

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

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

W.O. Number: 18707

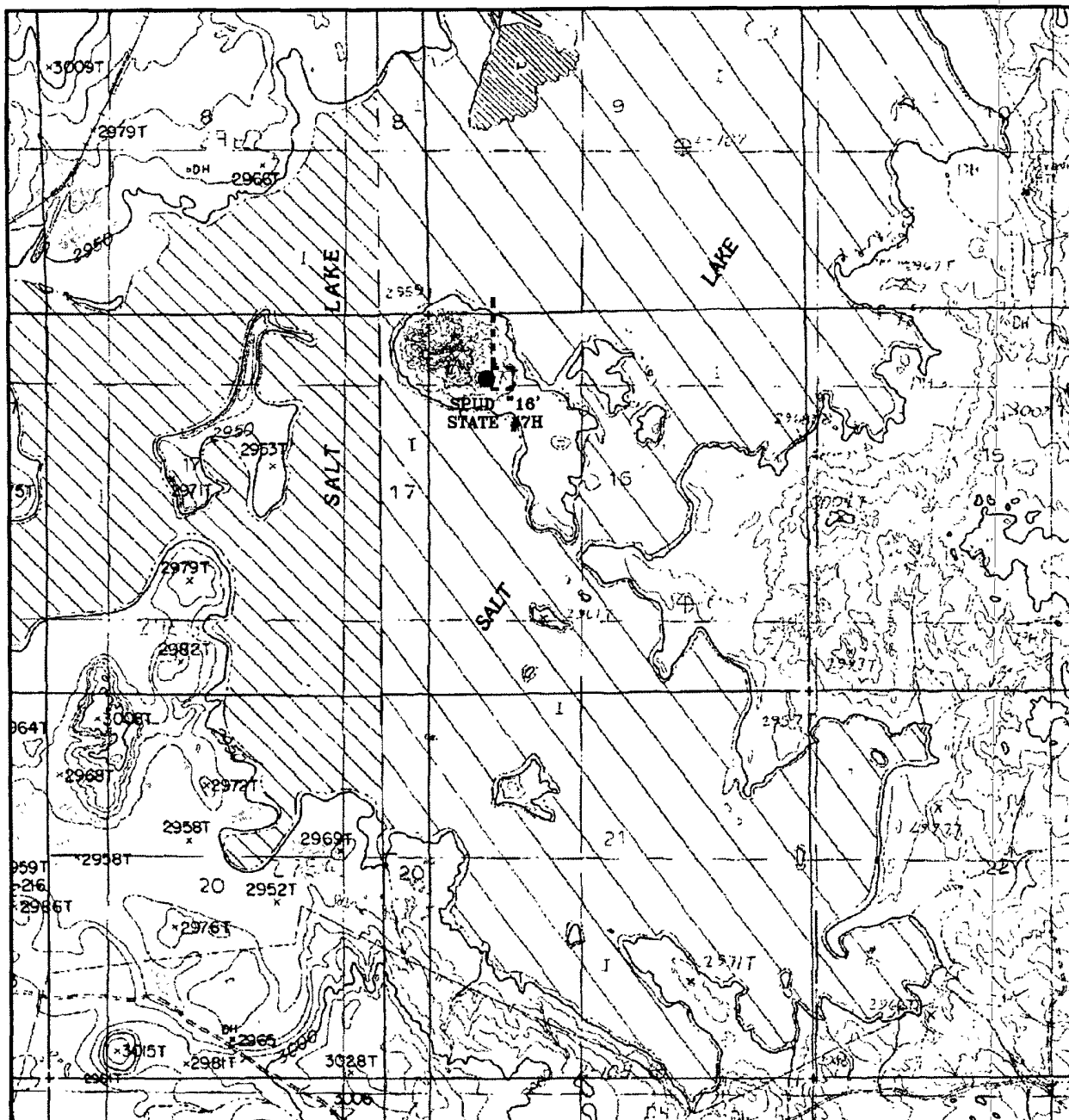
Drawn By: J. M. SMALL

Date: 10-30-2007

Disk: 18707W JMS

Survey Date: 10-29-2007

Sheet 1 of 1 Sheets



DEVON SPUD "16" STATE #7H
 Located at 910' FNL AND 810' FWL
 Section 16, Township 23 South, Range 29 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys

focused on excellence
 in the oilfield

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

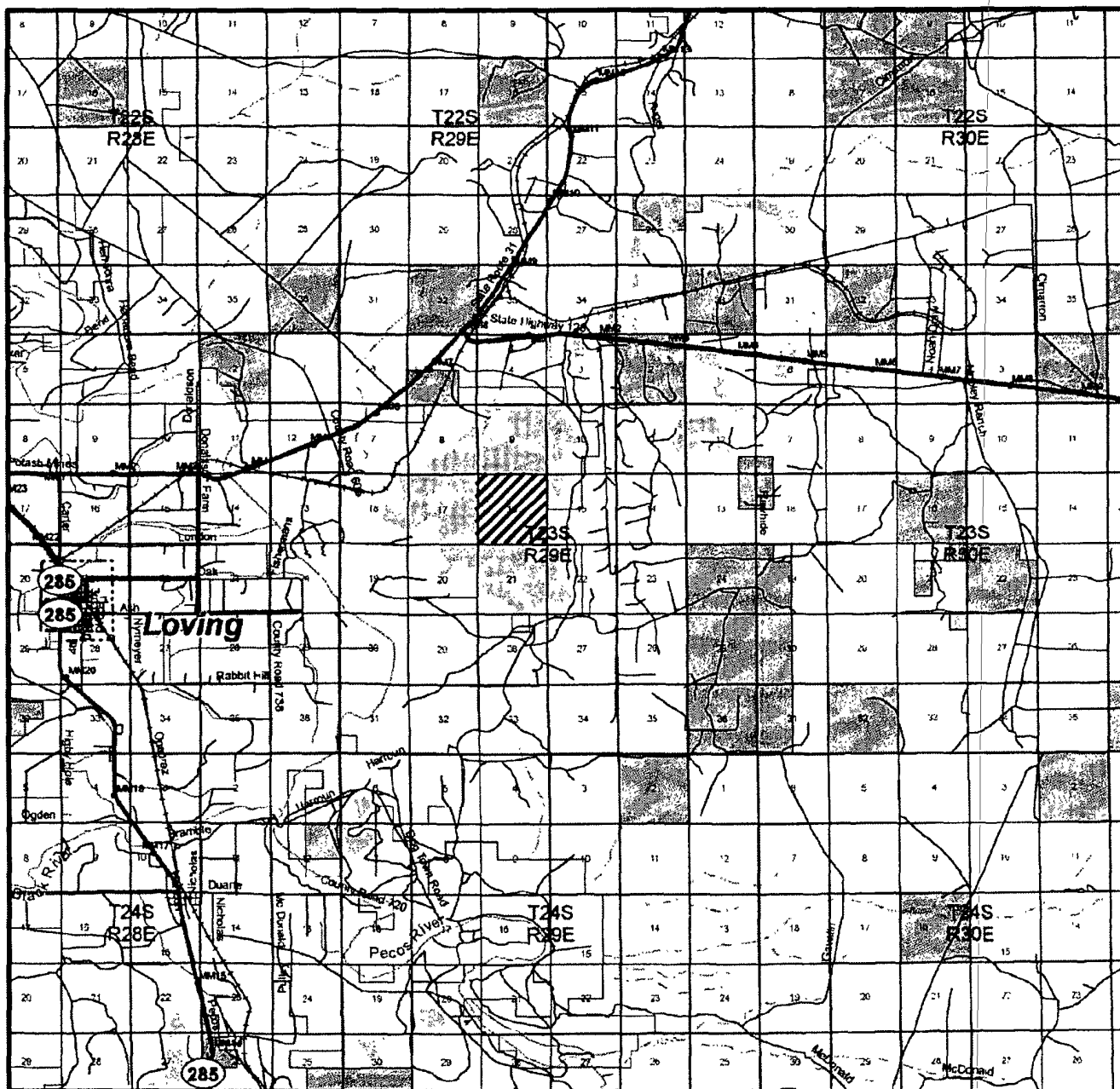
W.O. Number: JMS 18707T

Survey Date: 10-29-2007

Scale: 1" = 2000'

Date: 10-30-2007

DEVON ENERGY
 PROD. CO., L.P.



SPUD "16" STATE #7H
 Located at 910' FNL AND 810' FWL
 Section 16, Township 23 South, Range 29 East,
 N.M.P.M., Eddy County, New Mexico.

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

W.O. Number: JMS 18707TR

Survey Date: 10-29-2007

Scale: 1" = 2 MILES

Date: 10-30-2007

DEVON ENERGY
 PROD. CO., L.P.

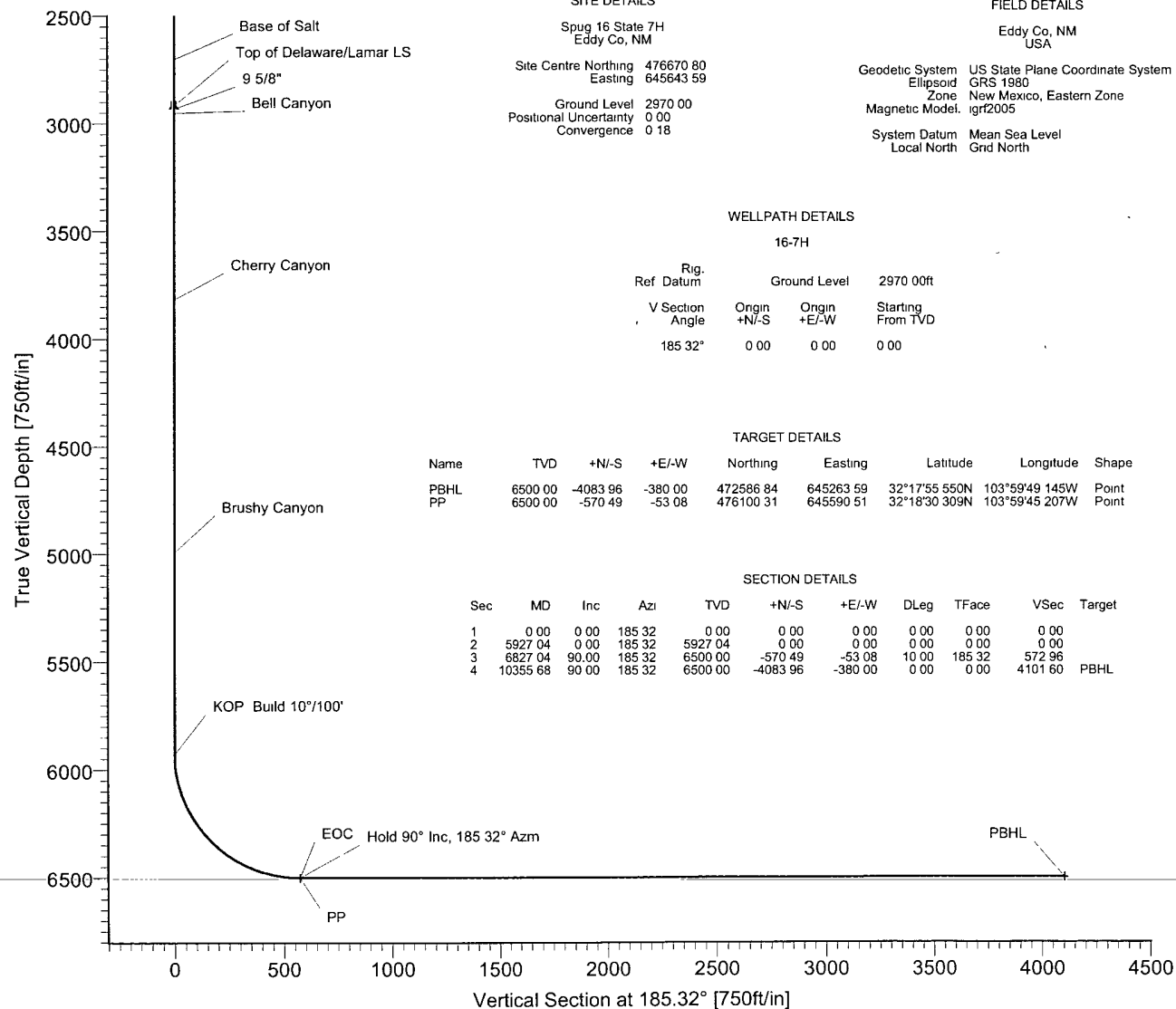


DEVON ENERGY CORPORATION

Field: Eddy Co, NM
Site: Spug 16 State 7H
Well: Spud 16 State 7H
Wellpath: 16-7H
Plan: Plan #3



Azimuths to Grid North
True North -0 18"
Magnetic North 8 01"
Magnetic Field
Strength 49015nT
Dip Angle 60 29"
Date 12/28/2007
Model igr2005



SITE DETAILS

Spug 16 State 7H
Eddy Co, NM
Site Centre Northing 476670 80
Easting 645643 59
Ground Level 2970 00
Positional Uncertainty 0 00
Convergence 0 18

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

16-7H

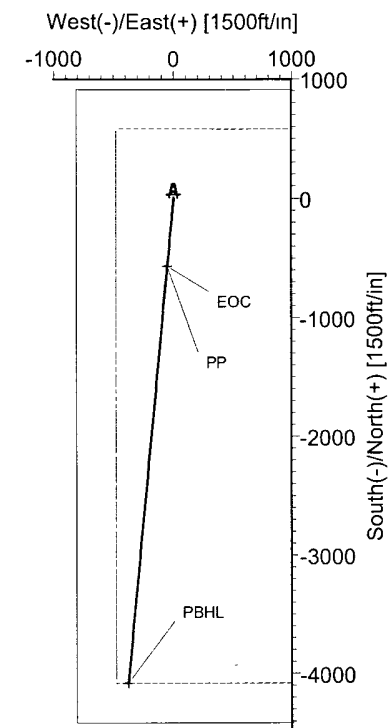
Rig. Ref Datum Ground Level 2970 00ft
V Section Angle Origin +N/-S Origin +E/-W Starting From TVD
185 32° 0 00 0 00 0 00

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	6500 00	-4083 96	-380 00	472586 84	645263 59	32°17'55 550N	103°59'49 145W	Point
PP	6500 00	-570 49	-53 08	476100 31	645590 51	32°18'30 309N	103°59'45 207W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 00	0 00	185 32	0 00	0 00	0 00	0 00	0 00	0 00	
2	5927 04	0 00	185 32	5927 04	0 00	0 00	0 00	0 00	0 00	
3	6827 04	90 00	185 32	6500 00	-570 49	-53 08	10 00	185 32	572 96	
4	10355 68	90 00	185 32	6500 00	-4083 96	-380 00	0 00	0 00	4101 60	PBHL



Plan and Lease Lines
are Based on a Square Mile Section
Offsets are 330' from Section Lines

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



Plan Plan #3 (Spud 16 State 7H/16 7H)
Created By Alexis Gonzalez Date 2/5/2008
Checked _____ Date _____
Reviewed _____ Date _____

Company: DEVON ENERGY CORPORATION				Date: 2/5/2008		Time: 10:24:05		Page: 1	
Field: Eddy Co, NM				Co-ordinate(NE) Reference: Site: Spug 16 State 7H, Grid North					
Site: Spug 16 State 7H				Vertical (TVD) Reference: Ground Level 2970.0					
Well: Spud 16 State 7H				Section (VS) Reference: Well (0.00N,0.00E,185.32Azi)					
Wellpath: 16-7H				Plan:		Plan #3			

Field: Eddy Co, NM							
USA							
Map System: US State Plane Coordinate System 1983				Map Zone:		New Mexico, Eastern Zone	
Geo Datum: GRS 1980				Coordinate System:		Site Centre	
Sys Datum: Mean Sea Level				Geomagnetic Model:		igrf2005	

Site: Spug 16 State 7H Eddy Co, NM							
Site Position:		Northing: 476670.80 ft		Latitude: 32 18 35.952 N			
From: Map		Easting: 645643.59 ft		Longitude: 103 59 44.568 W			
Position Uncertainty: 0.00 ft				North Reference: Grid			
Ground Level: 2970.00 ft				Grid Convergence: 0.18 deg			

Well: Spud 16 State 7H				Slot Name:			
Well Position: +N/-S 0.00 ft		Northing: 476670.80 ft		Latitude: 32 18 35.952 N			
+E/-W 0.00 ft		Easting: 645643.59 ft		Longitude: 103 59 44.568 W			
Position Uncertainty: 0.00 ft							

Wellpath: 16-7H				Drilled From: Surface			
Current Datum: Ground Level		Height 2970.00 ft		Tie-on Depth: 0.00 ft			
Magnetic Data: 12/28/2007				Above System Datum: Mean Sea Level			
Field Strength: 49015 nT				Declination: 8.19 deg			
Vertical Section: Depth From (TVD)		+N/-S		Mag Dip Angle: 60.29 deg			
ft		ft		+E/-W		Direction	
				ft		deg	
0.00		0.00		0.00		185.32	

Plan: Plan #3		Date Composed: 12/28/2007	
		Version: 1	
Principal: Yes		Tied-to: From Surface	

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	185.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5927.04	0.00	185.32	5927.04	0.00	0.00	0.00	0.00	0.00	0.00	
6827.04	90.00	185.32	6500.00	-570.49	-53.08	10.00	10.00	0.00	185.32	
10355.68	90.00	185.32	6500.00	-4083.96	-380.00	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
5927.04	0.00	185.32	5927.04	0.00	0.00	0.00	0.00	0.00	0.00	KOP: Build 10°/100'
5950.00	2.30	185.32	5949.99	-0.46	-0.04	0.46	10.00	10.00	0.00	
6000.00	7.30	185.32	5999.80	-4.62	-0.43	4.64	10.00	10.00	0.00	
6050.00	12.30	185.32	6049.06	-13.09	-1.22	13.14	10.00	10.00	0.00	
6100.00	17.30	185.32	6097.39	-25.80	-2.40	25.91	10.00	10.00	0.00	
6150.00	22.30	185.32	6144.42	-42.65	-3.97	42.84	10.00	10.00	0.00	
6200.00	27.30	185.32	6189.79	-63.52	-5.91	63.80	10.00	10.00	0.00	
6250.00	32.30	185.32	6233.17	-88.25	-8.21	88.64	10.00	10.00	0.00	
6300.00	37.30	185.32	6274.21	-116.66	-10.85	117.16	10.00	10.00	0.00	
6350.00	42.30	185.32	6312.62	-148.51	-13.82	149.15	10.00	10.00	0.00	
6400.00	47.30	185.32	6348.09	-183.58	-17.08	184.37	10.00	10.00	0.00	
6450.00	52.30	185.32	6380.35	-221.59	-20.62	222.55	10.00	10.00	0.00	
6500.00	57.30	185.32	6409.17	-262.25	-24.40	263.39	10.00	10.00	0.00	
6550.00	62.30	185.32	6434.32	-305.27	-28.40	306.59	10.00	10.00	0.00	
6600.00	67.30	185.32	6455.60	-350.30	-32.59	351.81	10.00	10.00	0.00	
6650.00	72.30	185.32	6472.86	-397.00	-36.94	398.72	10.00	10.00	0.00	
6700.00	77.30	185.32	6485.97	-445.03	-41.41	446.95	10.00	10.00	0.00	



Ryan Energy Technologies Planning Report



Company: DEVON ENERGY CORPORATION
Field: Eddy Co, NM
Site: Spug 16 State 7H
Well: Spud 16 State 7H
Wellpath: 16-7H

Date: 2/5/2008 Time: 10:24 05
Co-ordinate(NE) Reference: Site: Spug 16 State 7H, Grid North
Vertical (TVD) Reference: Ground Level 2970.0
Section (VS) Reference: Well (0.00N,0.00E,185.32Azi)
Plan: Plan.#3

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
6750.00	82.30	185.32	6494.83	-494.01	-45.97	496.15	10.00	10.00	0.00	
6800.00	87.30	185.32	6499.36	-543.58	-50.58	545.93	10.00	10.00	0.00	
6827.04	90.00	185.32	6500.00	-570.49	-53.08	572.96	10.00	10.00	0.00	Hold 90° Inc, 185.32° Azm
6900.00	90.00	185.32	6500.00	-643.14	-59.84	645.92	0.00	0.00	0.00	
7000.00	90.00	185.32	6500.00	-742.71	-69.11	745.92	0.00	0.00	0.00	
7100.00	90.00	185.32	6500.00	-842.28	-78.37	845.92	0.00	0.00	0.00	
7200.00	90.00	185.32	6500.00	-941.85	-87.64	945.92	0.00	0.00	0.00	
7300.00	90.00	185.32	6500.00	-1041.42	-96.90	1045.92	0.00	0.00	0.00	
7400.00	90.00	185.32	6500.00	-1140.99	-106.17	1145.92	0.00	0.00	0.00	
7500.00	90.00	185.32	6500.00	-1240.56	-115.43	1245.92	0.00	0.00	0.00	
7600.00	90.00	185.32	6500.00	-1340.13	-124.69	1345.92	0.00	0.00	0.00	
7700.00	90.00	185.32	6500.00	-1439.70	-133.96	1445.92	0.00	0.00	0.00	
7800.00	90.00	185.32	6500.00	-1539.27	-143.22	1545.92	0.00	0.00	0.00	
7900.00	90.00	185.32	6500.00	-1638.84	-152.49	1645.92	0.00	0.00	0.00	
8000.00	90.00	185.32	6500.00	-1738.41	-161.75	1745.92	0.00	0.00	0.00	
8100.00	90.00	185.32	6500.00	-1837.98	-171.02	1845.92	0.00	0.00	0.00	
8200.00	90.00	185.32	6500.00	-1937.55	-180.28	1945.92	0.00	0.00	0.00	
8300.00	90.00	185.32	6500.00	-2037.12	-189.55	2045.92	0.00	0.00	0.00	
8400.00	90.00	185.32	6500.00	-2136.69	-198.81	2145.92	0.00	0.00	0.00	
8500.00	90.00	185.32	6500.00	-2236.26	-208.08	2245.92	0.00	0.00	0.00	
8600.00	90.00	185.32	6500.00	-2335.83	-217.34	2345.92	0.00	0.00	0.00	
8700.00	90.00	185.32	6500.00	-2435.40	-226.61	2445.92	0.00	0.00	0.00	
8800.00	90.00	185.32	6500.00	-2534.97	-235.87	2545.92	0.00	0.00	0.00	
8900.00	90.00	185.32	6500.00	-2634.54	-245.14	2645.92	0.00	0.00	0.00	
9000.00	90.00	185.32	6500.00	-2734.11	-254.40	2745.92	0.00	0.00	0.00	
9100.00	90.00	185.32	6500.00	-2833.68	-263.66	2845.92	0.00	0.00	0.00	
9200.00	90.00	185.32	6500.00	-2933.25	-272.93	2945.92	0.00	0.00	0.00	
9300.00	90.00	185.32	6500.00	-3032.82	-282.19	3045.92	0.00	0.00	0.00	
9400.00	90.00	185.32	6500.00	-3132.39	-291.46	3145.92	0.00	0.00	0.00	
9500.00	90.00	185.32	6500.00	-3231.96	-300.72	3245.92	0.00	0.00	0.00	
9600.00	90.00	185.32	6500.00	-3331.52	-309.99	3345.92	0.00	0.00	0.00	
9700.00	90.00	185.32	6500.00	-3431.09	-319.25	3445.92	0.00	0.00	0.00	
9800.00	90.00	185.32	6500.00	-3530.66	-328.52	3545.92	0.00	0.00	0.00	
9900.00	90.00	185.32	6500.00	-3630.23	-337.78	3645.92	0.00	0.00	0.00	
10000.00	90.00	185.32	6500.00	-3729.80	-347.05	3745.92	0.00	0.00	0.00	
10100.00	90.00	185.32	6500.00	-3829.37	-356.31	3845.92	0.00	0.00	0.00	
10200.00	90.00	185.32	6500.00	-3928.94	-365.58	3945.92	0.00	0.00	0.00	
10300.00	90.00	185.32	6500.00	-4028.51	-374.84	4045.92	0.00	0.00	0.00	
10355.68	90.00	185.32	6500.00	-4083.96	-380.00	4101.60	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			6500.00	-4083.96	-380.00	472586.84	645263.59	32 17 55.550 N	103 59 49.145 W
PP			6500.00	-570.49	-53.08	476100.31	645590.51	32 18 30.309 N	103 59 45.207 W



Ryan Energy Technologies Planning Report



Company: DEVON ENERGY CORPORATION
Field: Eddy Co, NM
Site: Spug 16 State 7H
Well: Spud 16 State 7H
Wellpath: 16-7H

Date: 2/5/2008 Time: 10:24:05
Co-ordinate(NE) Reference: Site: Spug 16 State 7H, Grid North
Vertical (TVD) Reference: Ground Level 2970.0
Section (VS) Reference: Well (0.00N,0.00E,185.32Azi)
Plan: Plan #3

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Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
360.00	360.00	13.375	17.500	13 3/8"
2930.00	2930.00	9.625	12.250	9 5/8"

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
2700.00	2700.00	Base of Salt		0.00	0.00
2917.00	2917.00	Top of Delaware/Lamar LS		0.00	0.00
2950.00	2950.00	Bell Canyon		0.00	0.00
3815.00	3815.00	Cherry Canyon		0.00	0.00
4990.00	4990.00	Brushy Canyon		0.00	0.00

Annotation

MD ft	TVD ft	
5927.04	5927.04	KOP, Build 10°/100'
6827.04	6500.00	EOC
6827.04	6500.00	Hold 90° Inc, 185.32° Azm