

JUL 31 2013

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

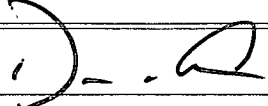
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. <40053> Roundabout 15 Fed State Com 1H
2. Name of Operator Devon Energy Production Company, L.P.		9. API Well No. 30-025-41355
3a. Address 333 W. Sheridan Ave. Oklahoma City, OK 73102	3b. Phone No. (include area code) <405-552-7848>	10. Field and Pool, or Exploratory <45R3> Mescalero Escarpe Bone Spring
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 2520 FSL & 1700 FEL Unit J, 10-18S-33E PP: 2405 FNL & 1980 FEL At proposed prod. zone 2310 FNL & 1980 FEL Unit G, 15-18S-33E		11. Sec., T. R. M. or Blk. and Survey or Area Sec 10, T18S-R33E
14. Distance in miles and direction from nearest town or post office* Approximately 10 miles southeast of Maljamar, NM		12. County or Parish Lea County
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1700'		13. State NM
16. No. of acres in lease VB14200 - 40, LG66310-160 NMNM 053380-280	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. See attached map	19. Proposed Depth TVD: 9,405' MD: 14,175' No Pilot hole	20. BLM/BIA Bond No. on file CO-1104 & NMB-000801
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3994.7' GL	22. Approximate date work will start* 07/31/2013	23. Estimated duration 62 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) David H. Cook	Date 06/24/2013
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Title
Regulatory Specialist

Approved by (Signature) /s/George MacDonell	Name (Printed/Typed)	Date JUL 26 2013
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Title **FIELD MANAGER** Office **CARLSBAD FIELD 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.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Ka 08/22/13

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

AUG 26 2013

DRILLING PROGRAM

Devon Energy Production Company, LP
Roundabout 15 Fed State Com 1H

Surface Location: 2520 FSL & 1700 FEL, Unit J, Sec 10 T18S R33E, Lea, NM

Bottom Hole Location: 2310 FNL & 1980 FEL, Unit G, Sec 15 T18S R33E, Lea, NM

1. Geologic Name of Surface Formation

a. Quaternary

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

a. Quaternary	Surface	
b. Fresh Water	90'	
c. Rustler	1496'	
d. Salado	2050'	Barren
e. Base Salado	3100'	Barren
f. Yates	3125'	Barren
g. Seven Rivers	3590'	Barren
h. Queen	4220'	Barren
i. Greyburg	4830'	Oil
j. Delaware	5000'	Oil
k. Bone Spring	7075'	Oil
l. 1 st Bone Spring SD	8390'	Oil

Total Depth 9,405' TVD 14,175' MD

3. Casing Program: (All casing is new and API approved.)

See
COA

<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>
17-1/2"	0 - 2,000 1600	13-3/8"	0 - 2,000	54.5#	STC	J-55
12-1/4"	2,000 - 3,200 3500	9-5/8"	0 - 3,200	36#	LTC	J-55
8-3/4"	3,200 - 8,600	5-1/2"	0 - 8,600	17#	LTC	HCP-110
8-3/4"	8,600 - 14,175	5-1/2"	8,600 - 14,175	17#	BTC	HCP-110

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", 54.5#, J-55, ST&C	1.21	2.92	8.34
9-5/8", 36#, J-55 LT&C	1.21	2.12	3.93
5-1/2" 17# HCP-110 LTC	1.69	2.42	1.85
5-1/2" 17# HCP-110 BTC	2.13	2.64	5.99

4. Cement Program: (cement volumes based on at least 100% Surface, 50% Intermediate and 25% excess on Production)

13-3/8" Surface **Lead: 1195** sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg

Yield: 1.75 cf/sk

TOC @ surface

Tail: 550 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.34 cf/sk

9-5/8" Intermediate **Lead: 930** sacks (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg

Yield: 1.85 cf/sk

TOC @ surface

Tail: 370 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg

Yield: 1.33 cf/sk

5-1/2" Production

1st Stage Lead

Lead: 410 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.2% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg

Yield: 1.95 cf/sk

Tail: 1420 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg

Yield: 1.22 cf/sk

DV TOOL at 6000 ft

2nd Stage Lead

Lead: 265. sacks Class C Cement + 3% bwoc Econolite + 0.125 lbs/sack Poly-E-Flake + 82.4% Fresh Water, 11.4 ppg

Yield: 2.87 cf/sk

TOC @ 2600'

Tail: 240 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water, 14.8 ppg

Yield: 1.33cf/sk

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

5. Pressure Control Equipment

The BOP system used to drill the intermediate hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2. 3M system will be installed and tested prior to drilling out the surface casing shoe. }

The BOP system used to drill the production hole will consist of a 13-5/8" Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2. 3M system will be installed prior to drilling out the intermediate casing shoe. }

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

If H&P Rig 416 is utilized to drill this well, a variance to Onshore Oil & Gas Order No. 2 is requested. Co-flex hose will be used between the BOPE & the choke manifold. The hose will be kept as straight as possible with minimal turns. Below is a list of current H&P rigs w/ their Co-flex hose specifications:

- H&P Rig 416; Serial No. 53622, 35', 3" ID, 10,000 psi W.P., -20 degrees C (-4 degrees F) to +100 degrees C (212 degrees F) operating temperature, 1.7 meters (5.6 feet) minimum operational bending radius.

If any other rig is used to drill this well, no co-flex hose will be needed.

6. **Proposed Mud Circulation System**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 2000' 1660	8.4-9.0	30-34	NC	FW
2000' - 3,200' 3500	9.8-10.0	28-32	NC	Brine
3,200 - 14,175'	8.6-9.0	28-32	N12	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

7. **Auxiliary Well Control and Monitoring Equipment:**

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. 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.

8. Logging, Coring, and Testing Program:

- d. Drill stem tests will be based on geological sample shows.
- e. 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.
- f. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing:
Dual Laterolog-Micro Laterolog with SP and Gamma Ray.
Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface:
Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 ½” production casing.
Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. 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 4600 psi and Estimated BHT 130°. No H₂S is anticipated to be encountered.

10. 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

Rev0

PATHFINDER
A Schlumberger Company

WELL	Devon Roundabout 15 Fed State Com 1H	FIDUCIAL	NM Lea County (NAD 83)	VERTICALITY	McVay 8
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Logistics Parameters	Site	MD 8928	Block	1500 1500 1	Surface Location	NAD83 New Mexico North Plane, Eastern Zone, US Feet	Miscellaneous	Shot	Roundabout 15 Fed State Com 1H DLS	KBH 1012 70 above MSF
Model	BW2M 2012	Mag Dec	7.523°	ES	ES	ES	ES	ES	ES	ES
ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES

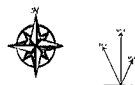
Legend

Devon Roundabout 15 Fed State Com 1H - Tie-In

Devon Roundabout 15 Fed State Com 1H - Landing Point

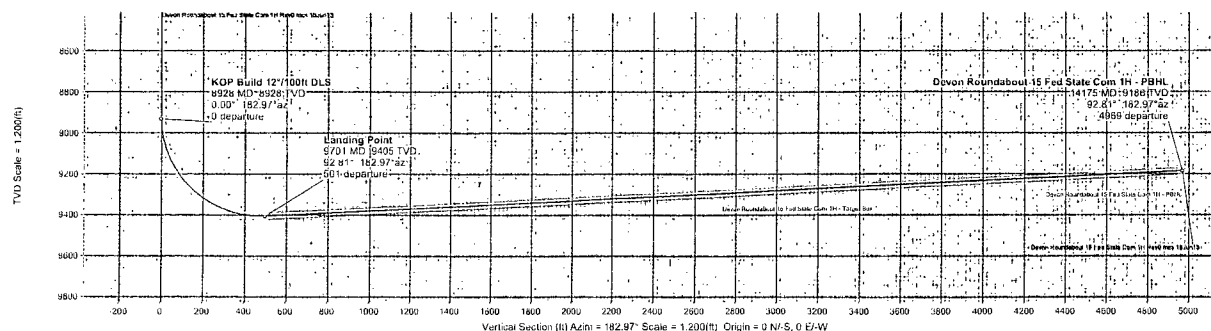
Devon Roundabout 15 Fed State Com 1H - PBHL

Devon Roundabout 15 Fed State Com 1H - PBHL

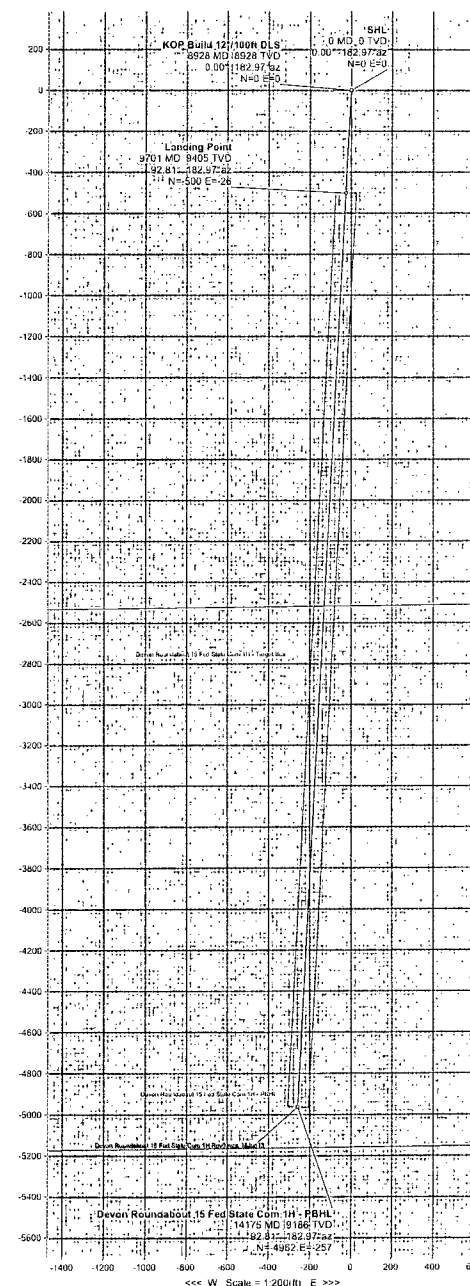


Grid North
Tot Corr (M→G)
7.1523°
Mag Dec (7.523°)
Grid Conv (0.371°)

Comments	Survey MD(ft)	Inclination(deg)	Azimuth(deg)	TVD(ft)	Sub-Sea TVD	VS(ft)	NS(ft)	EW(ft)	Northing(ftUS)	Easting(ftUS)	Latitude(deg)	Longitude(deg)	DLS(100ft)	Tool Face(deg)
Tie-In	0.00	0.00	182.97	0.00	-4012.70	0.00	0.00	0.00	641566.97	752026.56	N 32.45 42.581	W 103.38 52.599		182.97
KOP Build 12"/100ft DLS	8928.11	0.00	182.97	8928.11	4915.41	0.00	0.00	0.00	641566.97	752026.56	N 32.45 42.581	W 103.38 52.599	0.00	182.97
Landing Point	9701.49	92.81	182.97	9405.00	5392.30	500.83	-500.16	-25.95	641066.83	752000.61	N 32.45 37.634	W 103.38 52.941	12.00	-35.90
Devon Roundabout 15 Fed State Com 1H - PBHL	14175.03	92.81	182.97	9186.00	5173.30	4969.01	-4962.34	-257.40	636604.84	751769.17	N 32.44 53.500	W 103.38 55.989	0.00	



<<< S Scale = 1,200(ft) N >>>



<<< W Scale = 1,200(ft) E >>>

Drawn By: Curren User
Date Created: June 16, 2013 03:41:35 PM
Checked By:
Checked Date:
Approved By:
Approved Date:



Devon Roundabout 15 Fed State Com 1H Rev0 mcs 18Jun13 Proposal
Geodetic Report
(Def Plan)



Report Date: June 18, 2013 - 05:48 PM
Client: Devon
Field: NM Lea County (NAD 83)
Structure / Slot: Devon Roundabout 15 Fed State Com 1H / Devon Roundabout 15 Fed State Com 1H
Well: Devon Roundabout 15 Fed State Com 1H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Devon Roundabout 15 Fed State Com 1H Rev0 mcs 18Jun13
Survey Date: June 18, 2013
Tort / AHD / DDI / ERD Ratio: 32 808' / 4969.010 ft / 5.842 / 0.528
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 45' 42.58132", W 103° 38' 52.59925"
Location Grid N/E Y/X: N 641566.970 ftUS, E 752026.560 ftUS
CRS Grid Convergence Angle: 0.3709°
Grid Scale Factor: 0.99995992

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 182.969° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 4012.700 ft above MSL
Seabed / Ground Elevation: 3994.700 ft above MSL
Magnetic Declination: 7.523°
Total Gravity Field Strength: 998.4750mgn (9.80665 Based)
Total Magnetic Field Strength: 48698.054 nT
Magnetic Dip Angle: 60.583°
Declination Date: June 18, 2013
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.3709°
Total Corr Mag North->Grid North: 7 1523°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	0.00	0.00	182.97	0.00	-4012.70	0.00	0.00	0.00	N/A	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	100.00	0.00	182.97	100.00	-3912.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	200.00	0.00	182.97	200.00	-3812.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	300.00	0.00	182.97	300.00	-3712.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	400.00	0.00	182.97	400.00	-3612.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	500.00	0.00	182.97	500.00	-3512.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	600.00	0.00	182.97	600.00	-3412.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	700.00	0.00	182.97	700.00	-3312.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	800.00	0.00	182.97	800.00	-3212.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	900.00	0.00	182.97	900.00	-3112.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1000.00	0.00	182.97	1000.00	-3012.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1100.00	0.00	182.97	1100.00	-2912.70	-0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1200.00	0.00	182.97	1200.00	-2812.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1300.00	0.00	182.97	1300.00	-2712.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1400.00	0.00	182.97	1400.00	-2612.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1500.00	0.00	182.97	1500.00	-2512.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1600.00	0.00	182.97	1600.00	-2412.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1700.00	0.00	182.97	1700.00	-2312.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1800.00	0.00	182.97	1800.00	-2212.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	1900.00	0.00	182.97	1900.00	-2112.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2000.00	0.00	182.97	2000.00	-2012.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2100.00	0.00	182.97	2100.00	-1912.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2200.00	0.00	182.97	2200.00	-1812.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2300.00	0.00	182.97	2300.00	-1712.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2400.00	0.00	182.97	2400.00	-1612.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2500.00	0.00	182.97	2500.00	-1512.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2600.00	0.00	182.97	2600.00	-1412.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2700.00	0.00	182.97	2700.00	-1312.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2800.00	0.00	182.97	2800.00	-1212.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	2900.00	0.00	182.97	2900.00	-1112.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3000.00	0.00	182.97	3000.00	-1012.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3100.00	0.00	182.97	3100.00	-912.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3200.00	0.00	182.97	3200.00	-812.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3300.00	0.00	182.97	3300.00	-712.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3400.00	0.00	182.97	3400.00	-612.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3500.00	0.00	182.97	3500.00	-512.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3600.00	0.00	182.97	3600.00	-412.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3700.00	0.00	182.97	3700.00	-312.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3800.00	0.00	182.97	3800.00	-212.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	3900.00	0.00	182.97	3900.00	-112.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4000.00	0.00	182.97	4000.00	-12.70	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4100.00	0.00	182.97	4100.00	87.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4200.00	0.00	182.97	4200.00	187.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4300.00	0.00	182.97	4300.00	287.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4400.00	0.00	182.97	4400.00	387.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4500.00	0.00	182.97	4500.00	487.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4600.00	0.00	182.97	4600.00	587.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4700.00	0.00	182.97	4700.00	687.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4800.00	0.00	182.97	4800.00	787.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	4900.00	0.00	182.97	4900.00	887.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5000.00	0.00	182.97	5000.00	987.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5100.00	0.00	182.97	5100.00	1087.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5200.00	0.00	182.97	5200.00	1187.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5300.00	0.00	182.97	5300.00	1287.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5400.00	0.00	182.97	5400.00	1387.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5500.00	0.00	182.97	5500.00	1487.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5600.00	0.00	182.97	5600.00	1587.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5700.00	0.00	182.97	5700.00	1687.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5800.00	0.00	182.97	5800.00	1787.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	5900.00	0.00	182.97	5900.00	1887.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6000.00	0.00	182.97	6000.00	1987.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6100.00	0.00	182.97	6100.00	2087.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6200.00	0.00	182.97	6200.00	2187.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6300.00	0.00	182.97	6300.00	2287.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6400.00	0.00	182.97	6400.00	2387.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6500.00	0.00	182.97	6500.00	2487.30	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	6600.00	0.00	182.97</										

Comments	MD (ft)	Incl (°)	Azim (°)	Grid (ft)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7200.00	0.00	182.97	7200.00	3187.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7300.00	0.00	182.97	7300.00	3287.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7400.00	0.00	182.97	7400.00	3387.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7500.00	0.00	182.97	7500.00	3487.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7600.00	0.00	182.97	7600.00	3587.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7700.00	0.00	182.97	7700.00	3687.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7800.00	0.00	182.97	7800.00	3787.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	7900.00	0.00	182.97	7900.00	3887.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8000.00	0.00	182.97	8000.00	3987.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8100.00	0.00	182.97	8100.00	4087.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8200.00	0.00	182.97	8200.00	4187.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8300.00	0.00	182.97	8300.00	4287.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8400.00	0.00	182.97	8400.00	4387.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8500.00	0.00	182.97	8500.00	4487.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8600.00	0.00	182.97	8600.00	4587.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8700.00	0.00	182.97	8700.00	4687.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8800.00	0.00	182.97	8800.00	4787.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	8900.00	0.00	182.97	8900.00	4887.30	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
KOP Build 12"/100ft DLS	8928.11	0.00	182.97	8928.11	4815.41	0.00	0.00	0.00	0.00	0.00	641566.97	752026.56	N 32 45 42.58	W 103 38 52.60
	9000.00	8.63	182.97	8999.73	4987.03	5.40	-5.39	-0.28	12.00	641561.58	752028.28	N 32 45 42.53	W 103 38 52.60	
	9100.00	20.63	182.97	9096.31	5083.61	30.61	-30.57	-1.59	12.00	641538.40	752024.97	N 32 45 42.28	W 103 38 52.62	
	9200.00	32.63	182.97	9185.54	5172.84	75.34	-75.24	-3.90	12.00	641491.73	752022.66	N 32 45 41.84	W 103 38 52.60	
	9300.00	44.63	182.97	9263.52	5250.82	137.65	-137.47	-7.13	12.00	641429.51	752019.43	N 32 45 41.22	W 103 38 52.69	
	9400.00	56.63	182.97	9326.84	5314.14	214.82	-214.53	-11.13	12.00	641352.45	752015.43	N 32 45 40.46	W 103 38 52.75	
	9500.00	68.63	182.97	9372.74	5360.04	303.46	-303.05	-15.72	12.00	641263.93	752010.84	N 32 45 39.58	W 103 38 52.81	
	9600.00	80.63	182.97	9399.20	5386.50	399.70	-399.17	-20.71	12.00	641167.82	752005.85	N 32 45 38.63	W 103 38 52.87	
	9700.00	92.63	182.97	9405.07	5392.37	499.35	-498.68	-25.87	12.00	641068.31	752000.69	N 32 45 37.65	W 103 38 52.94	
Landing Point	9701.49	92.81	182.97	9405.07	5392.30	500.83	-500.16	-25.95	12.00	641066.83	752000.61	N 32 45 37.63	W 103 38 52.94	
	9800.00	92.81	182.97	9400.18	5387.48	599.23	-598.42	-31.05	0.00	640968.57	751995.51	N 32 45 36.66	W 103 38 53.01	
	9900.00	92.81	182.97	9395.29	5382.59	699.11	-698.17	-36.22	0.00	640868.83	751990.34	N 32 45 35.68	W 103 38 53.08	
	10000.00	92.81	182.97	9390.39	5377.69	799.99	-797.91	-41.40	0.00	640769.09	751985.16	N 32 45 34.69	W 103 38 53.14	
	10100.00	92.81	182.97	9385.50	5372.80	899.87	-897.65	-46.57	0.00	640669.35	751979.99	N 32 45 33.70	W 103 38 53.21	
	10200.00	92.81	182.97	9380.61	5367.91	999.75	-997.41	-51.75	0.00	640569.61	751974.81	N 32 45 32.72	W 103 38 53.28	
	10300.00	92.81	182.97	9375.71	5363.01	1099.63	-1097.15	-56.92	0.00	640469.86	751969.64	N 32 45 31.73	W 103 38 53.35	
	10400.00	92.81	182.97	9370.82	5358.12	1199.51	-1196.90	-62.10	0.00	640370.12	751964.47	N 32 45 30.74	W 103 38 53.42	
	10500.00	92.81	182.97	9365.92	5353.22	1299.39	-1296.64	-67.27	0.00	640270.38	751959.29	N 32 45 29.76	W 103 38 53.49	
	10600.00	92.81	182.97	9361.03	5348.33	1399.27	-1396.39	-72.45	0.00	640170.64	751954.12	N 32 45 28.77	W 103 38 53.55	
	10700.00	92.81	182.97	9356.13	5343.43	1499.15	-1496.14	-77.62	0.00	640070.90	751948.94	N 32 45 27.78	W 103 38 53.62	
	10800.00	92.81	182.97	9351.24	5338.54	1599.03	-1595.88	-82.80	0.00	639971.15	751943.77	N 32 45 26.80	W 103 38 53.69	
	10900.00	92.81	182.97	9346.35	5333.65	1697.91	-1695.63	-87.97	0.00	639871.41	751938.59	N 32 45 25.81	W 103 38 53.76	
	11000.00	92.81	182.97	9341.45	5328.75	1797.79	-1795.37	-93.14	0.00	639771.67	751933.42	N 32 45 24.82	W 103 38 53.83	
	11100.00	92.81	182.97	9336.56	5323.86	1897.67	-1895.12	-98.32	0.00	639671.93	751928.25	N 32 45 23.84	W 103 38 53.89	
	11200.00	92.81	182.97	9331.66	5318.96	1997.55	-1994.87	-103.49	0.00	639572.19	751923.07	N 32 45 22.85	W 103 38 53.96	
	11300.00	92.81	182.97	9326.77	5314.07	2097.43	-2094.61	-108.67	0.00	639472.45	751917.90	N 32 45 21.86	W 103 38 54.03	
	11400.00	92.81	182.97	9321.87	5309.17	2197.31	-2194.38	-113.84	0.00	639372.70	751912.72	N 32 45 20.88	W 103 38 54.10	
	11500.00	92.81	182.97	9316.98	5304.28	2297.19	-2294.10	-119.01	0.00	639272.96	751907.55	N 32 45 19.89	W 103 38 54.17	
	11600.00	92.81	182.97	9312.08	5299.38	2397.07	-2393.85	-124.19	0.00	639173.22	751902.38	N 32 45 18.90	W 103 38 54.23	
	11700.00	92.81	182.97	9307.19	5294.49	2496.95	-2493.60	-129.36	0.00	639073.48	751897.20	N 32 45 17.92	W 103 38 54.30	
	11800.00	92.81	182.97	9302.29	5289.59	2596.83	-2593.34	-134.54	0.00	638973.74	751892.03	N 32 45 16.93	W 103 38 54.37	
	11900.00	92.81	182.97	9297.39	5284.69	2696.71	-2693.09	-139.71	0.00	638873.99	751886.86	N 32 45 15.94	W 103 38 54.44	
	12000.00	92.81	182.97	9292.50	5279.80	2796.59	-2792.83	-144.88	0.00	638774.25	751881.68	N 32 45 14.96	W 103 38 54.51	
	12100.00	92.81	182.97	9287.60	5274.90	2896.47	-2892.58	-150.06	0.00	638674.51	751876.51	N 32 45 13.97	W 103 38 54.58	
	12200.00	92.81	182.97	9282.71	5270.01	2996.35	-2992.33	-155.23	0.00	638574.77	751871.33	N 32 45 12.98	W 103 38 54.64	
	12300.00	92.81	182.97	9277.81	5265.11	3096.23	-3092.07	-160.41	0.00	638475.03	751866.16	N 32 45 12.00	W 103 38 54.71	
	12400.00	92.81	182.97	9272.92	5260.22	3196.11	-3191.82	-165.58	0.00	638375.29	751860.99	N 32 45 11.01	W 103 38 54.78	
	12500.00	92.81	182.97	9268.02	5255.32	3295.99	-3291.56	-170.75	0.00	638275.54	751855.81	N 32 45 10.03	W 103 38 54.85	
	12600.00	92.81	182.97	9263.12	5250.42	3395.87	-3391.31	-175.93	0.00	638175.80	751850.64	N 32 45 9.04	W 103 38 54.92	
	12700.00	92.81	182.97	9258.23	5245.53	3495.75	-3491.06	-181.10	0.00	638076.06	751845.47	N 32 45 8.05	W 103 38 54.98	
	12800.00	92.81	182.97	9253.33	5240.63	3595.63	-3590.80	-186.27	0.00	637976.32	751840.30	N 32 45 7.07	W 103 38 55.05	
	12900.00	92.81	182.97	9248.44	5235.74	3695.51	-3690.55	-191.45	0.00	637876.58	751835.12	N 32 45 6.08	W 103 38 55.12	
	13000.00	92.81	182.97	9243.54	5230.84	3795.39	-3790.29	-196.62	0.00	637776.83	751829.95	N 32 45 5.09	W 103 38 55.19	
	13100.00	92.81	182.97	9238.64	5225.94	3895.27	-3890.04	-201.79	0.00	637677.09	751824.78	N 32 45 4.11	W 103 38 55.26	
	13200.00	92.81	182.97	9233.75	5221.05	3995.15	-3989.79	-206.97	0.00	637577.35	751819.60	N 32 45 3.12	W 103 38 55.32	
	13300.00	92.81	182.97	9228.85	5216.15	4095.03	-4089.53	-212.14	0.00	637477.61	751814.43	N 32 45 2.13	W 103 38 55.39	
	13400.00	92.81	182.97	9223.95	5211.25	4194.91	-4189.28	-217.31	0.00	637377.87	751809.26	N 32 45 1.15	W 103 38 55.46	
	13500.00	92.81	182.97	9219.06	5206.36	4294.79	-4289.02	-222.48	0.00	637278.13	751804.09	N 32 45 0.16	W 103 38 55.53	
	13600.00	92.81	182.97	9214.16	5201.46	4394.67	-4388.77	-227.66	0.00	637178.38	751798.91	N 32 44 59.17	W 103 38 55.60	
	13700.00	92.81	182.97	9209.26	5196.56	4494.55	-4488.52	-232.83	0.00	637078.64	751793.74	N 32 44 58.19	W 103 38 55.67	
	13800.00	92.81	182.97	9204.37	5191.67	4594.43	-4588.26	-238.00	0.00	636978.90	751788.57	N 32 44 57.20	W 103 38 55.73	
	13900.00	92.81	182.97	9199.47	5186.77	4694.31	-4688.01	-243.17	0.00	636879.16	751783.40	N 32 44 56.21	W 103 38 55.80	
	14000.													

NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP
Roundabout 15 Fed State Com 1H

Surface Location: 2520 FSL & 1700 FEL, Unit J, Sec 10 T18S R33E, Lea, NM
Bottom Hole Location: 2310 FNL & 1980 FEL, Unit G, Sec 15 T18S R33E, Lea, 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.

13-5/8" 3M BOPE & Closed Loop Equipment Schematic

