

ATS-11-158

OCD-ARTESIA

Form 3160-3
(February 2005)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007 **EA 207**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SL: NM 99040 BHL: NM 06370
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Devon Energy Production Co., LP		7. If Unit or CA Agreement, Name and No.
3a. Address 20 North Broadway OKC, OK 73102		8. Lease Name and Well No. Sirius 17 Federal Com 4H
3b. Phone No. (include area code) (405)-552-7802		9. API Well No. 30-019-38478
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWSW 450' FSL & 340' FWL Lot M At proposed prod. zone SESE 450' FSL & 340' FEL Lot B		10. Field and Pool, or Exploratory Hackberry; Bone Spring, NW
14. Distance in miles and direction from nearest town or post office* Approximately 12 miles south of Loco Hills, NM.		11. Sec., T. R. M. or Blk. and Survey or Area Sec 17-T19S-R31E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 340'	16. No. of acres in lease SL: 480 BHL: 160	17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SL: 1340' BHL: 1100'	19. Proposed Depth TVD: 8898' MD: 13250'	20. BLM/BIA Bond No. on file PHMD: 9180' CO-1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3419.30' GL	22. Approximate date work will start* 02/15/2011	23. Estimated duration 45 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) Stephanie A. Ysasaga	Date 12/10/2010
Title Sr. Staff Engineering Technician		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date JAN 24 2011
Title FIELD MANAGER		
Office CARLSBAD FIELD OFFICE		

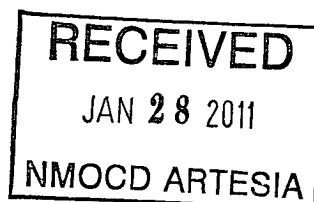
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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.

*(Instructions on page 2)

Capitan Controlled Water Basin



SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DRILLING PROGRAM

Devon Energy Production Company, LP

Sirius 17 Federal Com 4H

Surface Location: 450' FSL & 340' FWL, Unit M, Sec 17 T19S R31E, Eddy, NM

Bottom hole Location: 450' FSL & 340' FEL, Unit P, Sec 17 T19S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Permian

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

a. Rustler	455'	Barren
b. Salado	505'	Barren
c. Tansil Dolomite	2090'	Barren
d. Yates	2210'	Barren
e. Seven Rivers	2400'	Oil
f. Queen	3448'	Oil
g. San Andres	3995'	Oil
h. Delaware	4939'	Oil
i. Bone Springs	6600'	Oil
j. 1 st Bone Spring Ss	7980'	Oil
k. 2 nd Bone Spring Lime	8260'	Oil
l. 2 nd Bone Spring Ss	8777'	Oil
m. 2 nd Bone Spring Middle Ss	8927'	Oil
n. 2 nd Bone Spring Middle Ss Base	8960'	Oil
o. 3 rd Bone Spring Lime	9120'	Oil
p. PTD (pilot hole)	9180'	
q. Total Depth	TVD 8898' MD 13250'	

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 480' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 3100' 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. All casing is new and API approved.

NOTE: THIS WELL WILL BE DRILLED WITH A PILOT HOLE (PH)

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>
17 1/2"	0'-480' 430	13 3/8"	0'-480' 430	48#	STC	H-40
12 1/4"	480'-3100'	9 5/8" 6 5/8	0'-3100' 3800	36#	LTC	J-55
8 3/4"	3100'-8200'	5 1/2"	0'-8200'	17#	LTC	P110HC
8 3/4"	8200'-13250'	5 1/2"	8200'-13250'	17#	BTC	P110HC

An 8-3/4" pilot hole will be drilled to 9,180' MD, and plugged back to KOP. The cement plug details are included below in the "Cementing Program".

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"		6.72	12.20
9 5/8" 36# J-55 LTC	<i>pre COA 2.99</i> <u>1.23</u> <i>??</i>	2.15	2.74
5 1/2" 17# P-110LTC	1.64	2.02	1.55 <i>2.9</i>
5 1/2" 17# P-110BTC	1.84	2.27	5.22 <i>per operator</i>

1/19/11
MMW

4. Cement Program: (Note: All cement volumes are calculated with 25% excesses.)

- a. 13 3/8" Conductor **Lead:** 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg. **Yield:** 1.75 cf/sk
- Tail:** 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg. **Yield:** 1.35 cf/sk **TOC @ surface.**
- b. 9 5/8" Intermediate **Lead:** 750 sacks (35:65) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg. **Yield:** 1.96 cf/sk
- Tail:** 300 sacks Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 14.8 ppg. **Yield:** 1.34 cf/sk. **TOC @ surface.**
- c. 5 1/2" Production **1st Stage**
- Lead:** 900 sacks (35:65) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg. **Yield:** 2.00 cf/sk
- Tail:** 1,400 sacks (50:50) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg. **Yield:** 1.28 cf/sk
- DV TOOL at ~4,500 ft**
- 2nd Stage**
- Lead:** 250 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg. **Yield:**

2.89 cf/sk

Tail: 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg. **Yield:** 1.37cf/sk. **TOC @ 2,600 ft** See COA

8-3/4" Pilot Hole Plug

650 sxs Class H, 18.0 ppg, 0.89 cf/sk

Top of Plug 8,326' (KOP)

Bottom of Plug 9,180' (Pilot Hole TD)

TOC for All Strings:

Surface: 0'

Intermediate: 0'

Production: 2,600'

See COA [The above cement volumes could be revised pending the caliper measurement from the open hole logs. Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

5. Pressure Control Equipment:

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

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system 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 3,000 psi WP.

See COA [A flexible line with flanged ends may be used between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 480' 4M	8.4-9.0	30-34	NC	Fresh Water
480' - 3100' 3M	9.8-10.0	28-32	NC	Brine
3100' - 13250'	8.6-9.0	28-32	NC-12	Fresh Water

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

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:

- a. Drill stem tests will be based on geological sample shows.
- b. 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.
- c. 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 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Potential Hazards:

- a. 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 3600 psi and Estimated BHT 145°. 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.

11. Depending on rig availability, Devon may set the surface casing using an Ashton Oilfield Services rig.

- a. The rig plat is attached (if applicable). This rig will be used only to set the surface casing and will leave the location once the surface casing has been run and cemented. Another rig will drill the remainder of the wellbore. The reasons for using the smaller rig to set surface are: rig availability and economics.
- b. The BLM will be contacted 24 hours prior to commencing drilling operations. The surface casing will be run and cemented back to surface as per the approved APD. The well will be secured with a cap welded onto the surface casing. Another rig will be on location to drill the remainder of the wellbore within 60 days after the Ashton rig has left the location.



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Drilling Services

Proposal



devon

SIRIUS 17 FED COM #4H

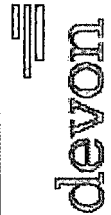
EDDY COUNTY, NM

WELL FILE: PLAN 1

DECEMBER 6, 2010

Weatherford International, Ltd.

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+1.432.561.8895 Fax
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Sirius 17 Fed Com #4H Eddy Co., NM

KB ELEV: 3444
GL ELEV: 3419

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	89.68	0.00	0.00	0.00	0.00	0.00	0.00	
2	8325.04	0.00	89.68	8325.04	0.00	0.00	0.00	0.00	0.00	
3	9225.04	90.00	89.68	8898.00	3.18	572.95	10.00	89.68	572.96	Pohl
4	13250.05	90.00	89.68	8898.00	25.51	4597.89	0.00	0.00	4597.96	Pohl

WELL DETAILS

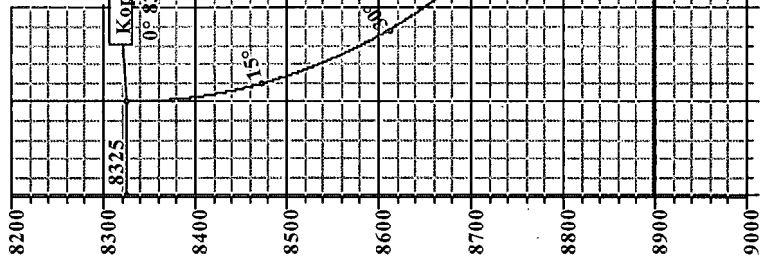
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Sirius 17 Fed Com #4H	0.00	0.00	602059.24	675031.54	32°39'15.671N	103°53'56.178W	N/A

TARGET DETAILS

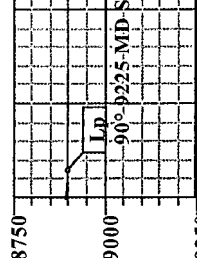
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pohl	8898.00	25.51	4597.89	602084.75	679629.43	Point

10° 8325 MD Start Build 10.00

True Vertical Depth [200ft/in]



True Vertical Depth [500ft/in]

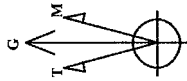


FIELD DETAILS

Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Datum: GRS 1980
Zone: 10N
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

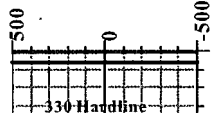
SITE DETAILS

Sirius 17 Fed Com #4H
Site Centre Northing: 602059.24
Easting: 675031.54
Ground Level: 3419.00
Positional Uncertainty: 0.00
Convergence: 0.23



Azimuths to Grid North
True North: 0.23°
Magnetic North: 7.58°
Magnetic Field
Strength: 4898.4T
Dip Angle: 60.54°
Date: 2/15/2011
Model: IGRF2010

South(-)/North(+) [1000ft/in]



West(-)/East(+) [1000ft/in]

90° 9225 MD Start Hold



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Vertical Section at 89.68° [500ft/in]

Plan: Plan #1 (Sirius 17 Fed Com #4H/1)

Created By: Russell W. Joyner

Date: 12/6/2010



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 12/6/2010	Time: 13:31:58	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Sirius 17 Fed Com #4H, Grid North	
Site: Sirius 17 Fed Com #4H	Vertical (TVD) Reference:	SITE 3444.0	
Well: Sirius 17 Fed Com #4H	Section (VS) Reference:	Well (0.00N,0.00E,89.68Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #1	Date Composed: 12/6/2010
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

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: Well Centre
Geomagnetic Model: IGRF2010

Site: Sirius 17 Fed Com #4H

Site Position:	Northing:	602059.24 ft	Latitude:	32 39 15.671 N
From: Map	Easting:	675031.54 ft	Longitude:	103 53 56.178 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3419.00 ft		Grid Convergence:	0.23 deg

Well: Sirius 17 Fed Com #4H

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	602059.24 ft	Latitude:	32 39 15.671 N
	+E/-W	0.00 ft	Easting:	675031.54 ft	Longitude:	103 53 56.178 W
Position Uncertainty:	0.00 ft					

Wellpath: 1

Drilled From: Surface

Current Datum: SITE	Height	3444.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data: 2/15/2011			Above System Datum:	Mean Sea Level
Field Strength: 48898 nT			Declination:	7.81 deg
Vertical Section: Depth From (TVD)	+N/-S		Mag Dip Angle:	60.54 deg
ft	ft		+E/-W	Direction
			ft	deg
8898.00	0.00		0.00	89.68

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	89.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8325.04	0.00	89.68	8325.04	0.00	0.00	0.00	0.00	0.00	0.00	
9225.04	90.00	89.68	8898.00	3.18	572.95	10.00	10.00	0.00	89.68	
13250.05	90.00	89.68	8898.00	25.51	4597.89	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	MapN ft	MapE ft	Comment
8300.00	0.00	89.68	8300.00	0.00	0.00	0.00	0.00	602059.24	675031.54	
8325.04	0.00	89.68	8325.04	0.00	0.00	0.00	0.00	602059.24	675031.54	Kop
8400.00	7.50	89.68	8399.79	0.03	4.90	4.90	10.00	602059.27	675036.44	
8500.00	17.50	89.68	8497.29	0.15	26.51	26.51	10.00	602059.39	675058.05	
8600.00	27.50	89.68	8589.57	0.36	64.72	64.72	10.00	602059.60	675096.26	
8700.00	37.50	89.68	8673.80	0.66	118.37	118.37	10.00	602059.90	675149.91	
8800.00	47.50	89.68	8747.44	1.03	185.84	185.84	10.00	602060.27	675217.38	
8900.00	57.50	89.68	8808.25	1.47	265.07	265.07	10.00	602060.71	675296.61	
9000.00	67.50	89.68	8854.37	1.96	353.65	353.66	10.00	602061.20	675385.19	
9100.00	77.50	89.68	8884.41	2.49	448.90	448.91	10.00	602061.73	675480.44	
9200.00	87.50	89.68	8897.45	3.04	547.92	547.92	10.00	602062.28	675579.46	
9225.04	90.00	89.68	8898.00	3.18	572.95	572.96	10.00	602062.42	675604.49	Lp
9300.00	90.00	89.68	8898.00	3.59	647.91	647.92	0.00	602062.83	675679.45	
9400.00	90.00	89.68	8898.00	4.15	747.90	747.92	0.00	602063.39	675779.44	
9500.00	90.00	89.68	8898.00	4.70	847.90	847.92	0.00	602063.94	675879.44	
9600.00	90.00	89.68	8898.00	5.26	947.90	947.92	0.00	602064.50	675979.44	
9700.00	90.00	89.68	8898.00	5.81	1047.90	1047.92	0.00	602065.05	676079.44	



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WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Sirius 17 Fed Com #4H
Well: Sirius 17 Fed Com #4H
Wellpath: 1

Date: 12/6/2010 Time: 13:31:58 Page: 2
Co-ordinate(N/E) Reference: Well: Sirius 17 Fed Com #4H, Grid North
Vertical (TVD) Reference: SITE 3444.0
Section (VS) Reference: Well (0.00N,0.00E,89.68Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9800.00	90.00	89.68	8898.00	6.37	1147.90	1147.92	0.00	602065.61	676179.44	
9900.00	90.00	89.68	8898.00	6.92	1247.90	1247.92	0.00	602066.16	676279.44	
10000.00	90.00	89.68	8898.00	7.48	1347.89	1347.92	0.00	602066.72	676379.43	
10100.00	90.00	89.68	8898.00	8.03	1447.89	1447.92	0.00	602067.27	676479.43	
10200.00	90.00	89.68	8898.00	8.59	1547.89	1547.92	0.00	602067.83	676579.43	
10300.00	90.00	89.68	8898.00	9.14	1647.89	1647.92	0.00	602068.38	676679.43	
10400.00	90.00	89.68	8898.00	9.70	1747.89	1747.92	0.00	602068.94	676779.43	
10500.00	90.00	89.68	8898.00	10.25	1847.89	1847.92	0.00	602069.49	676879.43	
10600.00	90.00	89.68	8898.00	10.81	1947.89	1947.92	0.00	602070.05	676979.43	
10700.00	90.00	89.68	8898.00	11.36	2047.88	2047.92	0.00	602070.60	677079.42	
10800.00	90.00	89.68	8898.00	11.92	2147.88	2147.92	0.00	602071.16	677179.42	
10900.00	90.00	89.68	8898.00	12.47	2247.88	2247.92	0.00	602071.71	677279.42	
11000.00	90.00	89.68	8898.00	13.03	2347.88	2347.92	0.00	602072.27	677379.42	
11100.00	90.00	89.68	8898.00	13.58	2447.88	2447.92	0.00	602072.82	677479.42	
11200.00	90.00	89.68	8898.00	14.14	2547.88	2547.92	0.00	602073.38	677579.42	
11300.00	90.00	89.68	8898.00	14.69	2647.87	2647.92	0.00	602073.93	677679.41	
11400.00	90.00	89.68	8898.00	15.25	2747.87	2747.92	0.00	602074.49	677779.41	
11500.00	90.00	89.68	8898.00	15.80	2847.87	2847.92	0.00	602075.04	677879.41	
11600.00	90.00	89.68	8898.00	16.36	2947.87	2947.92	0.00	602075.60	677979.41	
11700.00	90.00	89.68	8898.00	16.91	3047.87	3047.92	0.00	602076.15	678079.41	
11800.00	90.00	89.68	8898.00	17.46	3147.87	3147.92	0.00	602076.70	678179.41	
11900.00	90.00	89.68	8898.00	18.02	3247.87	3247.92	0.00	602077.26	678279.41	
12000.00	90.00	89.68	8898.00	18.57	3347.86	3347.92	0.00	602077.81	678379.40	
12100.00	90.00	89.68	8898.00	19.13	3447.86	3447.92	0.00	602078.37	678479.40	
12200.00	90.00	89.68	8898.00	19.68	3547.86	3547.92	0.00	602078.92	678579.40	
12300.00	90.00	89.68	8898.00	20.24	3647.86	3647.92	0.00	602079.48	678679.40	
12400.00	90.00	89.68	8898.00	20.79	3747.86	3747.92	0.00	602080.03	678779.40	
12500.00	90.00	89.68	8898.00	21.35	3847.86	3847.92	0.00	602080.59	678879.40	
12600.00	90.00	89.68	8898.00	21.90	3947.85	3947.92	0.00	602081.14	678979.39	
12700.00	90.00	89.68	8898.00	22.46	4047.85	4047.92	0.00	602081.70	679079.39	
12800.00	90.00	89.68	8898.00	23.01	4147.85	4147.92	0.00	602082.25	679179.39	
12900.00	90.00	89.68	8898.00	23.57	4247.85	4247.92	0.00	602082.81	679279.39	
13000.00	90.00	89.68	8898.00	24.12	4347.85	4347.92	0.00	602083.36	679379.39	
13100.00	90.00	89.68	8898.00	24.68	4447.85	4447.92	0.00	602083.92	679479.39	
13200.00	90.00	89.68	8898.00	25.23	4547.85	4547.92	0.00	602084.47	679579.39	
13250.05	90.00	89.68	8898.00	25.51	4597.89	4597.96	0.00	602084.75	679629.43	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			8898.00	25.51	4597.89	602084.75	679629.43	32 39 15.734 N	103 53 2.396 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford®

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Sirius 17 Fed Com #4H
Well: Sirius 17 Fed Com #4H
Wellpath: 1

Date: 12/6/2010 Time: 13:31:58 Page: 3
Co-ordinate(NE) Reference: Well: Sirius 17 Fed Com #4H, Grid North
Vertical (TVD) Reference: SITE 3444.0
Section (VS) Reference: Well (0.00N,0.00E,89.68Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
8325.04	8325.04	Kop
9225.04	8898.00	Lp
13250.04	8898.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: December 06, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Sirius 17 Fed Com #4H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 602059.240 USFT	Latitude 32.6543562 DEG
East/West 675031.540 USFT	Longitude -103.8989340 DEG
Grid Convergence: .23°	
Total Correction: +7.58°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.65436° N	32° 39 min 15.683 sec
Longitude =	103.89893° W	103° 53 min 56.162 sec

Magnetic Declination =	7.81°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6697
Local Field Strength =	48894 nT	Magnetic Vector X = 23826 nT
Magnetic Dip =	60.54°	Magnetic Vector Y = 3269 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42571 nT
Spud Date =	Feb 15, 2011	Magnetic Vector H = 24049 nT

Signed: _____

Date: _____

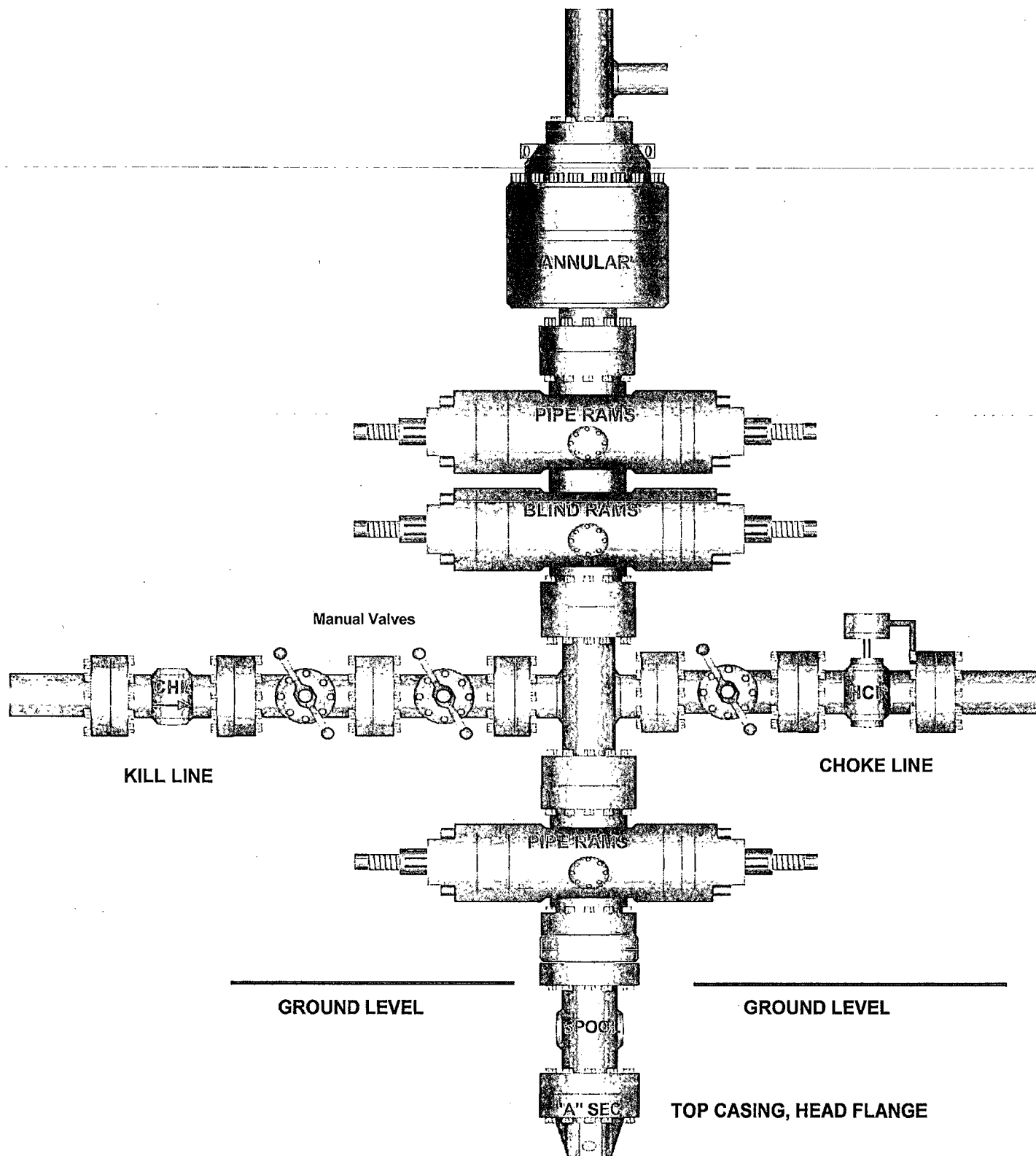
Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP

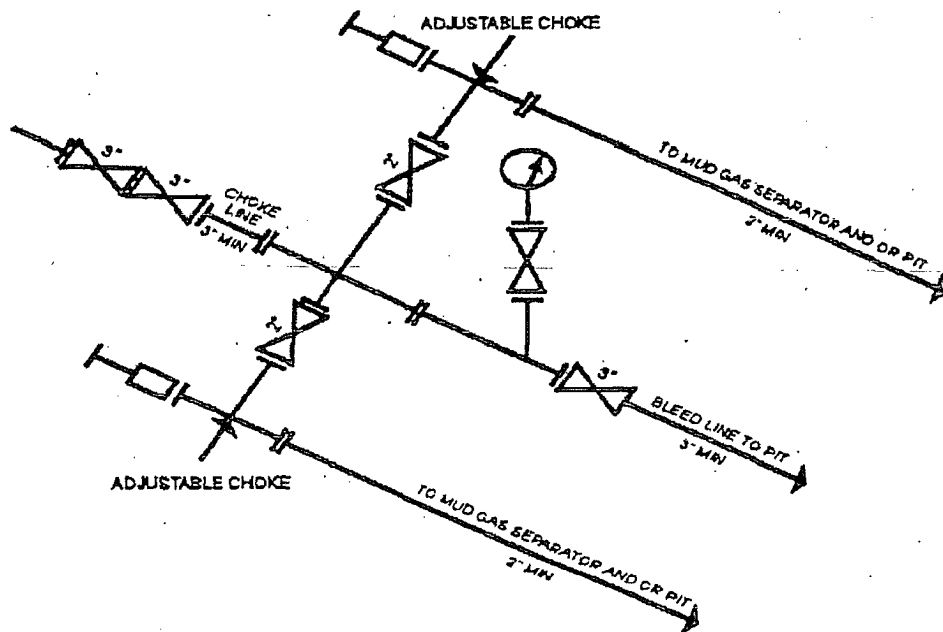
Sirius 17 Federal Com 4H

Surface Location: 450' FSL & 340' FWL, Unit M, Sec 17 T19S R31E, Eddy, NM
Bottom hole Location: 450' FSL & 340' FEL, Unit P, Sec 17 T19S 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.

13-5/8" x 3,000 psi BOP Stack





3M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
 [54 FR 39528, Sept. 27, 1989]

*Inadequate
 schematic
 1/22/2011*