

OCD-ARTESIA

A 75-11-1589

Form 3160-3
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

EA 286

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. SL: NM 99040 BHL: NM06370
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 3H
3b. Phone No. (include area code) (405)-552-7802		9. API Well No. 30-015-38481
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NWSW 1980' FSL & 340' FWL Lot L At proposed prod. zone NESE 1980' FSL & 340' FEL Lot I		10. Field and Pool, or Exploratory Hackberry; Bone Spring, NW
11. Sec, T, R, M. or Blk. and Survey or Area Sec 17-T19S-R31E		12. County or Parish Eddy
13. State NM		14. Distance in miles and direction from nearest town or post office* Approximately 12 miles south of Loco Hills, NM.
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: 385' BHL: 1530'	19. Proposed Depth TVD: 8888' MD: 13252'	20. BLM/BIA Bond No. on file PHMD: 9185' CO-1104
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3423.6' 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:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- 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.

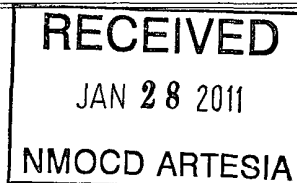
Conditions of approval, if any, are attached.

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 APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DRILLING PROGRAM

Devon Energy Production Company, LP

Sirius 17 Federal Com 3H

Surface Location: 1980' FSL & 340' FWL, Unit L, Sec 17 T19S R31E, Eddy, NM

Bottom hole Location: 1980' FSL & 340' FEL, Unit I, 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	450'	Barren
b. Salado	500'	Barren
c. Tansil Dolomite	2085'	Barren
d. Yates	2200'	Barren
e. Seven Rivers	2394'	Oil
f. Queen	3439'	Oil
g. San Andres	3989'	Oil
h. Delaware	4929'	Oil
i. Bone Springs	6594'	Oil
j. 1 st Bone Spring Ss	7970'	Oil
k. 2 nd Bone Spring Lime	8250'	Oil
l. 2 nd Bone Spring Ss	8767'	Oil
m. 2 nd Bone Spring Middle Ss	8917'	Oil
n. 2 nd Bone Spring Middle Ss Base	8950'	Oil
o. 3 rd Bone Spring Lime	9110'	Oil
p. PTD (pilot hole)	9185'	
q. Total Depth	TVD 8888' MD 13252'	

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'~~^{3600'} 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'	13 3/8"	0'-480'	48#	STC	H-40
12 1/4"	480'-3100' ^{3600'}	9 5/8"	0'-3100' ^{3600'}	36#	LTC	J-55
8 3/4"	3100'-8200'	5 1/2"	0'-8200'	17#	LTC	P110HC
8 3/4"	8200'-13252'	5 1/2"	8200'-13252'	17#	BTC	P110HC

An 8-3/4" pilot hole will be drilled to 9,185' 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"	2.99	6.72	12.20
9 5/8" 36# LTC	<i>see COA</i> <u>1.23</u> ??	2.15	2.74
5 1/2" 17# LTC	1.64	2.02	1.55 2.9
5 1/2" 17# BTC	1.84	2.27	5.22 <i>per operator</i>

1/19/11

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 9,185' (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'	8.4-9.0	30-34	NC	Fresh Water
480' - 3100 3600	9.8-10.0	28-32	NC	Brine
3100 - 13252'	8.6-9.0	28-32	NC-12	Fresh Water

see COA 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.

See
COA

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.

See
COA



Weatherford®

Drilling Services

Proposal



devon

SIRIUS 17 FED COM #3H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

DECEMBER 6, 2010

Weatherford International, Ltd.

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devon
Sirius 17 Fed Com #3H
Eddy Co., NM

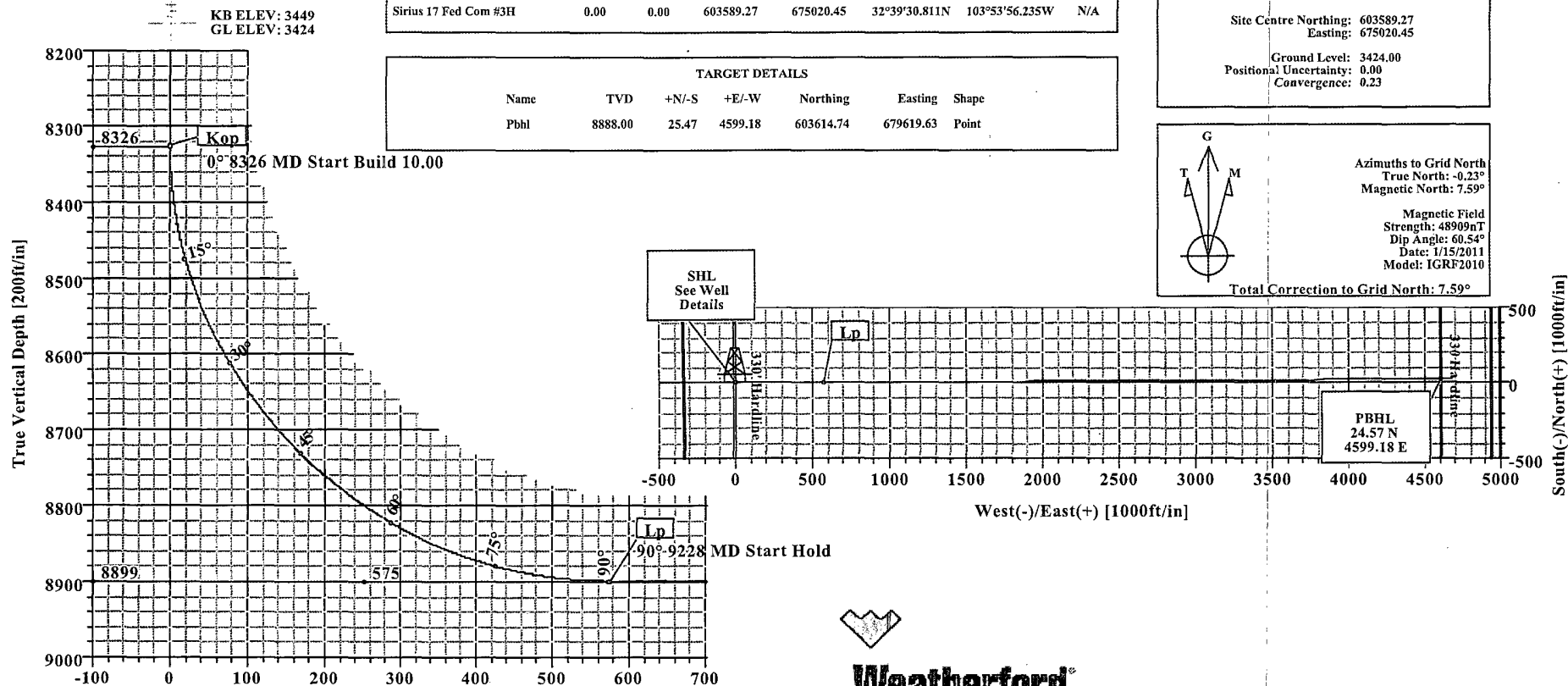
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	89.68	0.00	0.00	0.00	0.00	0.00	0.00	
2	8326.04	0.00	89.68	8326.04	0.00	0.00	0.00	0.00	0.00	
3	9227.61	90.16	89.68	8899.00	3.18	574.51	10.00	89.68	574.52	
4	13252.35	90.16	89.68	8888.00	25.47	4599.18	0.00	0.00	4599.25	Pbhl

FIELD DETAILS	
Eddy Co., NM (NAD 83)	
Geodetic System:	US State Plane Coordinate System 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico, Eastern Zone
Magnetic Model:	IGRF2010
System Datum:	Mean Sea Level
Local North:	Grid North

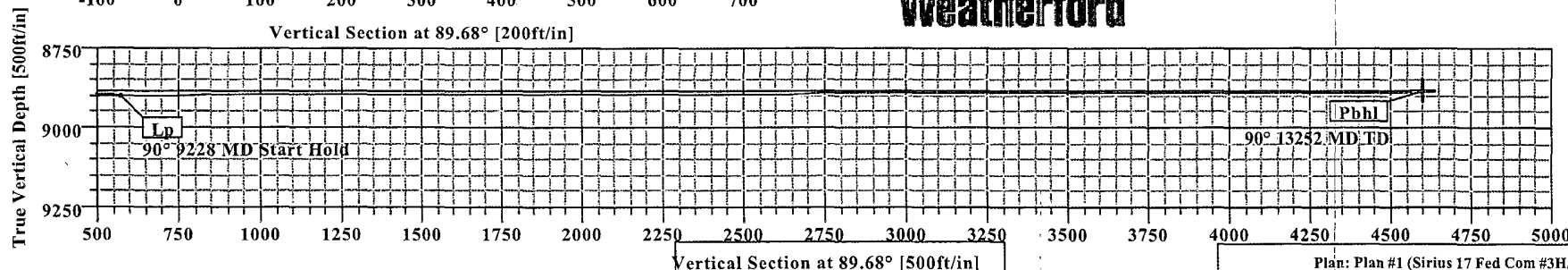
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Sirius 17 Fed Com #3H	0.00	0.00	603589.27	675020.45	32°39'30.811N	103°53'56.235W	N/A

SITE DETAILS	
Sirius 17 Fed Com #3H	
Site Centre Northing:	603589.27
Easting:	675020.45
Ground Level:	3424.00
Positional Uncertainty:	0.00
Convergence:	0.23

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8888.00	25.47	4599.18	603614.74	679619.63	Point



Weatherford



Plan: Plan #1 (Sirius 17 Fed Com #3H/1)
 Created By: Russell W. Joyner Date: 12/6/2010



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 12/6/2010	Time: 10:44:37	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Sirius 17 Fed Com #3H, Grid North		
Site: Sirius 17 Fed Com #3H	Vertical (TVD) Reference: SITE 3449.0		
Well: Sirius 17 Fed Com #3H	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	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Sirius 17 Fed Com #3H

Site Position:	Northing: 603589.27 ft	Latitude: 32 39 30.811 N
From: Map	Easting: 675020.45 ft	Longitude: 103 53 56.235 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3424.00 ft		Grid Convergence: 0.23 deg

Well: Sirius 17 Fed Com #3H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 603589.27 ft	Latitude: 32 39 30.811 N
+E/-W 0.00 ft	Easting: 675020.45 ft	Longitude: 103 53 56.235 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 1/15/2011	Above System Datum: Mean Sea Level		
Field Strength: 48909 nT	Declination: 7.82 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.54 deg		
ft	+N/-S ft	+E/-W ft	Direction deg
8888.00	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	
8326.04	0.00	89.68	8326.04	0.00	0.00	0.00	0.00	0.00	0.00	
9227.61	90.16	89.68	8899.00	3.18	574.51	10.00	10.00	0.00	89.68	
13252.35	90.16	89.68	8888.00	25.47	4599.18	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	603589.27	675020.45	Kop
8326.04	0.00	89.68	8326.04	0.00	0.00	0.00	0.00	603589.27	675020.45	
8400.00	7.40	89.68	8399.79	0.03	4.77	4.77	10.00	603589.30	675025.22	
8500.00	17.40	89.68	8497.34	0.15	26.20	26.21	10.00	603589.42	675046.65	
8600.00	27.40	89.68	8589.68	0.36	64.26	64.26	10.00	603589.63	675084.71	
8700.00	37.40	89.68	8674.01	0.65	117.76	117.76	10.00	603589.92	675138.21	Lp
8800.00	47.40	89.68	8747.77	1.03	185.10	185.10	10.00	603590.30	675205.55	
8900.00	57.40	89.68	8808.71	1.46	264.22	264.23	10.00	603590.73	675284.67	
9000.00	67.40	89.68	8854.99	1.95	352.73	352.73	10.00	603591.22	675373.18	
9100.00	77.40	89.68	8885.19	2.48	447.92	447.93	10.00	603591.75	675468.37	
9200.00	87.40	89.68	8898.41	3.03	546.91	546.92	10.00	603592.30	675567.36	
9227.61	90.16	89.68	8899.00	3.18	574.51	574.52	10.00	603592.45	675594.96	
9300.00	90.16	89.68	8898.80	3.58	646.90	646.91	0.00	603592.85	675667.35	
9400.00	90.16	89.68	8898.53	4.14	746.90	746.91	0.00	603593.41	675767.35	
9500.00	90.16	89.68	8898.26	4.69	846.90	846.91	0.00	603593.96	675867.35	
9600.00	90.16	89.68	8897.98	5.24	946.90	946.91	0.00	603594.51	675967.35	
9700.00	90.16	89.68	8897.71	5.80	1046.90	1046.91	0.00	603595.07	676067.35	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Sirius 17 Fed Com #3H
Well: Sirius 17 Fed Com #3H
Wellpath: 1

Date: 12/6/2010 Time: 10:44:37 Page: 2
Co-ordinate(NE) Reference: Well: Sirius 17 Fed Com #3H, Grid North
Vertical (TVD) Reference: SITE 3449.0
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	90.16	89.68	8897.44	6.35	1146.89	1146.91	0.00	603595.62	676167.34	
9900.00	90.16	89.68	8897.16	6.91	1246.89	1246.91	0.00	603596.18	676267.34	
10000.00	90.16	89.68	8896.89	7.46	1346.89	1346.91	0.00	603596.73	676367.34	
10100.00	90.16	89.68	8896.62	8.01	1446.89	1446.91	0.00	603597.28	676467.34	
10200.00	90.16	89.68	8896.34	8.57	1546.89	1546.91	0.00	603597.84	676567.34	
10300.00	90.16	89.68	8896.07	9.12	1646.88	1646.91	0.00	603598.39	676667.33	
10400.00	90.16	89.68	8895.80	9.67	1746.88	1746.91	0.00	603598.94	676767.33	
10500.00	90.16	89.68	8895.52	10.23	1846.88	1846.91	0.00	603599.50	676867.33	
10600.00	90.16	89.68	8895.25	10.78	1946.88	1946.91	0.00	603600.05	676967.33	
10700.00	90.16	89.68	8894.98	11.34	2046.88	2046.91	0.00	603600.61	677067.33	
10800.00	90.16	89.68	8894.70	11.89	2146.87	2146.91	0.00	603601.16	677167.32	
10900.00	90.16	89.68	8894.43	12.44	2246.87	2246.91	0.00	603601.71	677267.32	
11000.00	90.16	89.68	8894.16	13.00	2346.87	2346.91	0.00	603602.27	677367.32	
11100.00	90.16	89.68	8893.88	13.55	2446.87	2446.91	0.00	603602.82	677467.32	
11200.00	90.16	89.68	8893.61	14.10	2546.87	2546.91	0.00	603603.37	677567.32	
11300.00	90.16	89.68	8893.34	14.66	2646.86	2646.91	0.00	603603.93	677667.31	
11400.00	90.16	89.68	8893.06	15.21	2746.86	2746.91	0.00	603604.48	677767.31	
11500.00	90.16	89.68	8892.79	15.77	2846.86	2846.90	0.00	603605.04	677867.31	
11600.00	90.16	89.68	8892.52	16.32	2946.86	2946.90	0.00	603605.59	677967.31	
11700.00	90.16	89.68	8892.24	16.87	3046.86	3046.90	0.00	603606.14	678067.31	
11800.00	90.16	89.68	8891.97	17.43	3146.86	3146.90	0.00	603606.70	678167.31	
11900.00	90.16	89.68	8891.70	17.98	3246.85	3246.90	0.00	603607.25	678267.30	
12000.00	90.16	89.68	8891.42	18.53	3346.85	3346.90	0.00	603607.80	678367.30	
12100.00	90.16	89.68	8891.15	19.09	3446.85	3446.90	0.00	603608.36	678467.30	
12200.00	90.16	89.68	8890.88	19.64	3546.85	3546.90	0.00	603608.91	678567.30	
12300.00	90.16	89.68	8890.60	20.20	3646.85	3646.90	0.00	603609.47	678667.30	
12400.00	90.16	89.68	8890.33	20.75	3746.84	3746.90	0.00	603610.02	678767.29	
12500.00	90.16	89.68	8890.06	21.30	3846.84	3846.90	0.00	603610.57	678867.29	
12600.00	90.16	89.68	8889.78	21.86	3946.84	3946.90	0.00	603611.13	678967.29	
12700.00	90.16	89.68	8889.51	22.41	4046.84	4046.90	0.00	603611.68	679067.29	
12800.00	90.16	89.68	8889.24	22.96	4146.84	4146.90	0.00	603612.23	679167.29	
12900.00	90.16	89.68	8888.96	23.52	4246.83	4246.90	0.00	603612.79	679267.28	
13000.00	90.16	89.68	8888.69	24.07	4346.83	4346.90	0.00	603613.34	679367.28	
13100.00	90.16	89.68	8888.42	24.63	4446.83	4446.90	0.00	603613.90	679467.28	
13200.00	90.16	89.68	8888.14	25.18	4546.83	4546.90	0.00	603614.45	679567.28	
13252.35	90.16	89.68	8888.00	25.47	4599.18	4599.25	0.00	603614.74	679619.63	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			8888.00	25.47	4599.18	603614.74	679619.63	32	39	30.873 N	103	53	2.435 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy	Date: 12/6/2010	Time: 10:44:37	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Sirius 17 Fed Com #3H, Grid North	
Site: Sirius 17 Fed Com #3H	Vertical (TVD) Reference:	SITE 3449.0	
Well: Sirius 17 Fed Com #3H	Section (VS) Reference:	Well (0.00N,0.00E,89.68Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
8326.04	8326.04	Kop
9227.61	8899.00	Lp
13252.35	8888.00	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-#3H

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 603589.270 USFT

Latitude 32.6585619 DEG

East/West 675020.450 USFT

Longitude -103.8989497 DEG

Grid Convergence: .23°

Total Correction: +7.59°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.65856° N 32° 39 min 30.823 sec

Longitude = 103.89895° W 103° 53 min 56.219 sec

Magnetic Declination = 7.82° [True North Offset]

Local Gravity = .9988 g CheckSum = 6679

Local Field Strength = 48905 nT Magnetic Vector X = 23826 nT

Magnetic Dip = 60.54° Magnetic Vector Y = 3273 nT

Magnetic Model = IGRF-2010g11 Magnetic Vector Z = 42583 nT

Spud Date = Jan 15, 2011 Magnetic Vector H = 24050 nT

Signed: _____

Date: _____

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

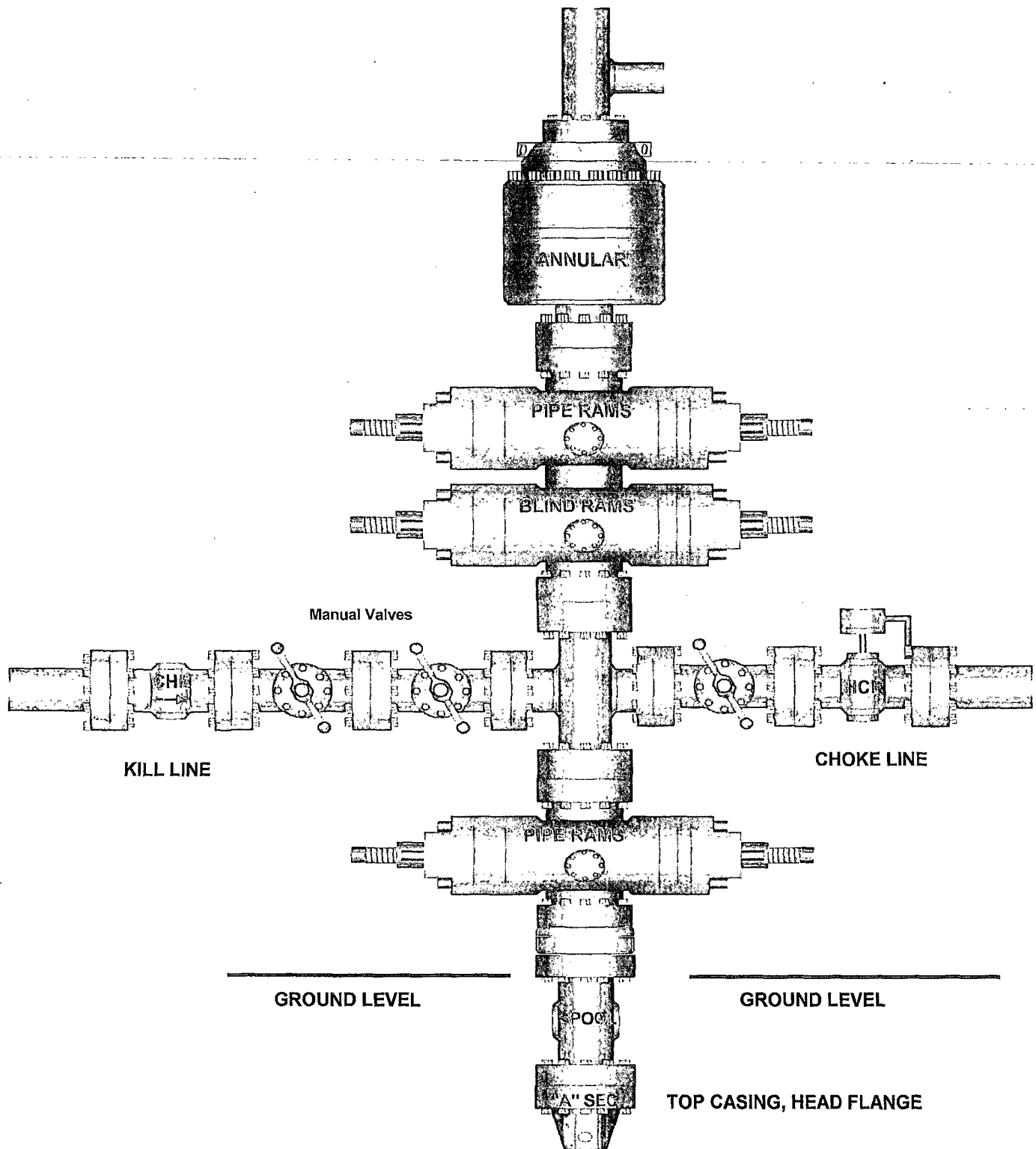
Sirius 17 Federal Com 3H

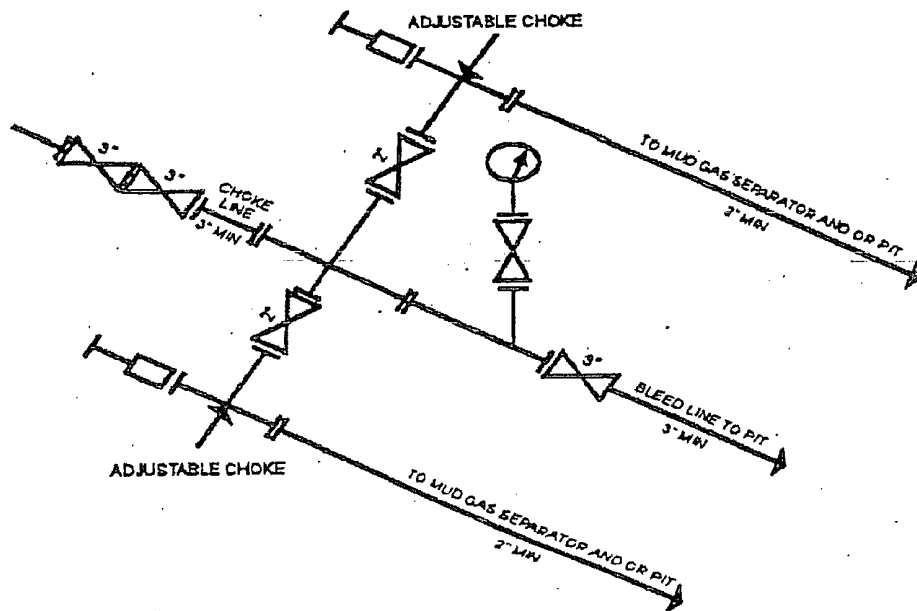
Surface Location: 1980' FSL & 340' FWL, Unit L, Sec 17 T19S R31E, Eddy, NM

Bottom hole Location: 1980' FSL & 340' FEL, Unit I, 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]

not an
 adequate
 schematic
 MW
 1/22/2011