

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBS OCD

APPLICATION FOR PERMIT TO DRILL OR REENTER

ATS-14-1013
FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

5. Lease Serial No.
SL: NMNM025779A; BL: NMNM104685

6. If Indian, Allottee or Tribe Name

[H]

1a. Type of work: ☒ DRILL ☐ REENTER

APR 27 2015

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other

☒ Single Zone ☐ Multiple Zones

2. Name of Operator Devon Energy Production Company, L.P.

[6137]

RECEIVED

7. If Unit or CA Agreement, Name and No.
PENDING

8. Lease Name and Well No.
Taylor Draw 7 Fed Com 4H

[313577]

9. API Well No.

30-025-42529

3a. Address 333 W. Sheridan
Oklahoma City, OK 73102-5010

3b. Phone No. (include area code)
405-552-6558 Linda Good

10. Field and Pool, or Exploratory
Lusk; Bone Spring

[41440]

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface SESE, 1285' FSL & 345' FEL, Unit P PP: 990' FSL & 330' FEL
At proposed prod. zone SWSW, 760' FSL & 340' FWL, Lot 4

M(4)

11. Sec., T. R. M. or Blk. and Survey or Area
7-19S-32E

14. Distance in miles and direction from nearest town or post office*

12. County or Parish
Lea

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
See attached map

16. No. of acres in lease
SL: 40 Acres
BL: 443.400 Acres

17. Spacing Unit dedicated to this well
160.81 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
See attached map

19. Proposed Depth
13,442' MD / 8305' TVD

20. BLM/BIA Bond No. on file
CO-1104; NBM-000801

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3614.6' GL

22. Approximate date work will start*
01/28/2015

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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature *Linda Good*

Name (Printed/Typed)
Linda Good

Date
7/30/2014

Title
Regulatory Compliance Specialist

Approved by (Signature)
Steve Caffey

Name (Printed/Typed)

Date
APR 20 2015

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
04/27/15

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APR 28 2015

Devon Energy Production Company, L.P., Taylor Draw 7 Fed/4H

HOBBS OCD

APR 27 2015

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1. Geologic Name of Surface Formation: Quaternary

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

a. Fresh Water	300'	
b. Rustler	850'	Barren
c. Top of Salt	1050'	Barren
d. Base of Salt	2633'	Barren
e. Top of Capitan	2893'	Oil / Gas
f. Base of Capitan	6000'	Oil / Gas
g. Queen	3629'	Oil / Gas
h. Delaware	5375'	Oil / Gas
i. Bone Spring Lime	6988'	Oil / Gas
j. 1 st Bone Spring SS	8250'	Oil / Gas
k. 1 st Bone Spring SS Mid	8391'	Oil / Gas
Total Depths	8305' TVD	13442' MD

3. Pressure Control Equipment:

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

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
Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line); **if an H&P rig drills this well. Otherwise no flex line is needed.** The line will be kept as straight as possible with minimal turns.

Auxiliary Well Control and Monitoring Equipment:

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

4. Casing Program:

See COA

Hole Size	Hole Interval, ^{93D}	Casing OD	Casing Interval ^{93D}	Weight (lb/ft)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2"	0 - 900'	13-3/8"	0 - 900'	48	STC	H-40	1.91	4.30	12.52
12-1/4"	900-4450'	9-5/8"	0-4450'	36	BTC	HCK-55	1.65	1.71	5.20
8-3/4"	4450-13442'	5-1/2"	0-13442'	17	BTC	P-110	1.86	2.65	3.98

Casing Notes:

- All casing is new and API approved

Maximum Lateral TVD: 8406

5. Proposed mud Circulations System:

See
COA

Depth	Mud Weight	Viscosity	Fluid Loss	Type System
0-900' ^{930'}	8.4-9.0	30-34	N/C	FW
900-4450'	10.0-10.2	28-32	N/C	Brine
4450-13442'	8.6-9.0	28-32	N/C	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.

6. Cementing Table:

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
Surface	845	14.8	6.35	1.35	Lead	Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water
Intermediate	1280	12.60	8.81	1.73	Lead	(60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 89.6% Fresh Water
	515	13.8	6.42	1.38	Tail	(60:40) Poz (Fly Ash):Class C Cement + 4% bwoc MPA-5 + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.1% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 65.2% Fresh Water
Production Single Stage	570	12.5	11.01	2.01	1 st Lead	(35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.5% Fresh Water
	1535	14.20	5.77	1.28	2 nd Lead	(50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.4% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 57.3% Fresh Water
Production Two Stage	435	12.50	11.02	2.01	Lead	(35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.6% Fresh Water
	1540	14.20	5.76	1.28	Tail	(50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.3% bwoc Sodium Metasilicate + 57.2% Fresh Water
	DVT @ 4500'					
	277	13.80	6.40	1.37	Tail	(60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.1% Fresh Water

See
COA

TOC for all Strings:

Surface	@	0'
Intermediate	@	0'
Production	@	3950'

Notes:

- Cement volumes Surface 75%, Intermediate 75%, Production based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data

7. Logging, Coring, and Testing Program:

- Drill stem tests will be based on geological sample shows.
- If a drill stem test is anticipated, a procedure, equipment to be used, and safety measures will be provided via sundry notice to the BLM.
- Resistivity and porosity logs are planned below the intermediate casing point. Stated logs run will be named in the Completion Report and submitted to the BLM.
- No coring program is planned
- Additional Testing will be initiated subsequent to setting the production casing. Specific intervals will be targeted based on log evaluation (if applicable), geological sample shows, and drill stem tests.

8. Potential Hazards:

- No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area, and none is anticipated to be encountered. 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 being used to drill this well. Estimated BHP: 3732 psi, and estimated BHT: 141 degrees.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production string is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

See
COA

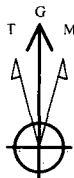
9. Anticipated Starting Date and Duration of Operations:

- 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 20 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

Project: Lea County (NAD83)
Site: Taylor Draw 7 Fed
Well: Taylor Draw 7 Fed #4
OH
Design #1

US State Plane 1983
New Mexico Eastern Zone



Azimuths to Grid North
True North: -0.29°
Magnetic North: 7.05°

Magnetic Field
Strength: 48598.2nT
Dip Angle: 60.52°
Date: 7/15/2014
Model: IGRF200510

PATHFINDER

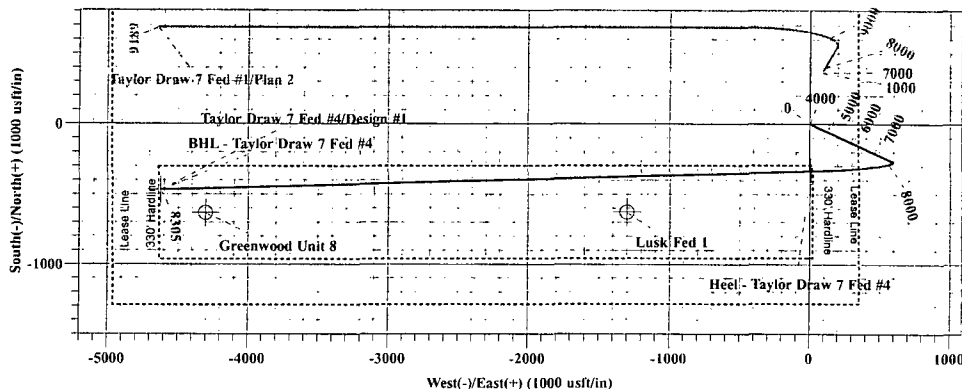
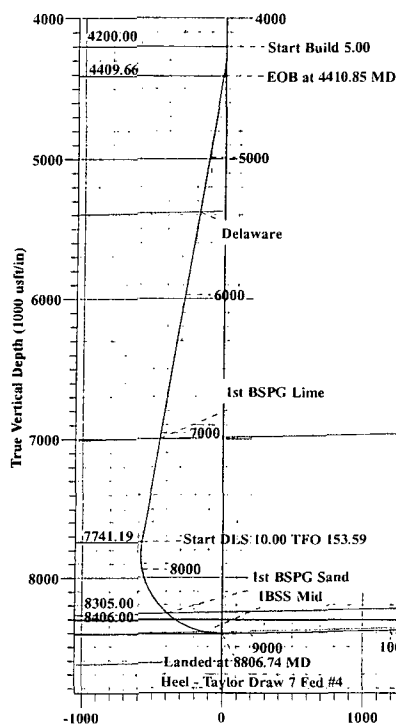
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WELL DETAILS: Taylor Draw 7 Fed #4

WELL @ 3641.00usft (Original Well Elev)		3615.00	
Northing	Easting	Latitude	Longitude
608354.85	706024.50	32° 40' 16.575 N	103° 47' 53.275 W

LEGEND

— Taylor Draw 7 Fed #1, OH, Plan 2 VO
□ Design #1



SECTION DETAILS

Sec	MD	Inc	Azi	IVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	
3	4410.85	10.54	114.28	4409.66	-7.95	17.83	5.00	114.28	-17.40	
4	7799.58	10.54	114.28	7741.19	-282.73	582.88	0.00	0.00	-575.02	
5	8806.74	91.25	268.34	8406.00	-334.71	7.13	10.00	153.59	2.57	Heel - Taylor Draw 7 Fed #4
6	13441.82	91.25	268.34	8305.00	-469.61	-4624.92	0.00	0.00	4636.55	BHL - Taylor Draw 7 Fed #4

Plan: Design #1 (Taylor Draw 7 Fed #4/OH)

Created By: Janise Kirkpatrick Date: 14:08, July 18 2014

Devon Energy, Inc.

Lea County (NAD83)

Taylor Draw 7 Fed

Taylor Draw 7 Fed #4

OH

Plan: Design #1

Standard Planning Report

15 July, 2014

Pathfinder - A Schlumberger Company

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed #4
Company:	Devon Energy Inc	TVD Reference:	WELL @ 3641.00usft (Original Well Elev)
Project:	Lea County (NAD83)	MD Reference:	WELL @ 3641.00usft (Original Well Elev)
Site:	Taylor Draw 7 Fed	North Reference:	Grid
Well:	Taylor Draw 7 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Project:	Lea County (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Taylor Draw 7 Fed		
Site Position:		Northing:	608,719.71 usft
From:	Map	Easting:	706,107.12 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 20.183 N
		Longitude:	103° 47' 52.286 W
		Grid Convergence:	0.29 °

Well:	Taylor Draw 7 Fed #4		
Well Position	+N/-S	-365.06 usft	Northing:
	+E/-W	-82.62 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,641.00 usft
		Latitude:	32° 40' 16.575 N
		Longitude:	103° 47' 53.275 W
		Ground Level:	3,615.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/15/2014	7.34	60.52	48,598

Design:	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	268.34	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,410.85	10.54	114.26	4,409.66	-7.95	17.63	5.00	5.00	0.00	114.26	
7,799.58	10.54	114.26	7,741.19	-262.73	582.88	0.00	0.00	0.00	0.00	
8,806.74	91.25	268.34	8,406.00	-334.71	7.13	10.00	8.01	15.30	153.59	Heel - Taylor Draw 7 F
13,441.82	91.25	268.34	8,305.00	-468.61	-4,624.92	0.00	0.00	0.00	0.00	BHL - Taylor Draw 7 F

Pathfinder - A Schlumberger Company

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed #4
Company:	Devon Energy, Inc.	TVD Reference:	WELL @ 3641.00usft (Original Well Elev)
Project:	Lea County (NAD83)	MD Reference:	WELL @ 3641.00usft (Original Well Elev)
Site:	Taylor Draw 7 Fed	North Reference:	Grid
Well:	Taylor Draw 7 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	5.00	114.26	4,299.87	-1.79	3.98	-3.92	5.00	5.00	0.00	
4,400.00	10.00	114.26	4,398.99	-7.15	15.87	-15.66	5.00	5.00	0.00	
4,410.85	10.54	114.26	4,409.66	-7.95	17.63	-17.40	5.00	5.00	0.00	
4,500.00	10.54	114.26	4,497.31	-14.65	32.51	-32.07	0.00	0.00	0.00	
4,600.00	10.54	114.26	4,595.62	-22.17	49.19	-48.52	0.00	0.00	0.00	
4,700.00	10.54	114.26	4,693.93	-29.69	65.87	-64.98	0.00	0.00	0.00	
4,800.00	10.54	114.26	4,792.24	-37.21	82.55	-81.43	0.00	0.00	0.00	
4,900.00	10.54	114.26	4,890.56	-44.73	99.23	-97.89	0.00	0.00	0.00	
5,000.00	10.54	114.26	4,988.87	-52.24	115.91	-114.34	0.00	0.00	0.00	
5,100.00	10.54	114.26	5,087.18	-59.76	132.59	-130.80	0.00	0.00	0.00	
5,200.00	10.54	114.26	5,185.49	-67.28	149.27	-147.25	0.00	0.00	0.00	
5,300.00	10.54	114.26	5,283.80	-74.80	165.95	-163.71	0.00	0.00	0.00	
5,396.75	10.54	114.26	5,378.92	-82.07	182.08	-179.63	0.00	0.00	0.00	
Delaware										
5,400.00	10.54	114.26	5,382.12	-82.32	182.63	-180.16	0.00	0.00	0.00	
5,500.00	10.54	114.26	5,480.43	-89.84	199.31	-196.62	0.00	0.00	0.00	
5,600.00	10.54	114.26	5,578.74	-97.36	215.99	-213.07	0.00	0.00	0.00	
5,700.00	10.54	114.26	5,677.05	-104.87	232.67	-229.53	0.00	0.00	0.00	
5,800.00	10.54	114.26	5,775.36	-112.39	249.35	-245.99	0.00	0.00	0.00	
5,900.00	10.54	114.26	5,873.68	-119.91	266.03	-262.44	0.00	0.00	0.00	
6,000.00	10.54	114.26	5,971.99	-127.43	282.71	-278.90	0.00	0.00	0.00	
6,100.00	10.54	114.26	6,070.30	-134.95	299.39	-295.35	0.00	0.00	0.00	
6,200.00	10.54	114.26	6,168.61	-142.47	316.07	-311.81	0.00	0.00	0.00	
6,300.00	10.54	114.26	6,266.92	-149.99	332.75	-328.26	0.00	0.00	0.00	
6,400.00	10.54	114.26	6,365.24	-157.50	349.43	-344.72	0.00	0.00	0.00	
6,500.00	10.54	114.26	6,463.55	-165.02	366.11	-361.17	0.00	0.00	0.00	
6,600.00	10.54	114.26	6,561.86	-172.54	382.79	-377.63	0.00	0.00	0.00	
6,700.00	10.54	114.26	6,660.17	-180.06	399.47	-394.08	0.00	0.00	0.00	
6,800.00	10.54	114.26	6,758.48	-187.58	416.15	-410.54	0.00	0.00	0.00	
6,900.00	10.54	114.26	6,856.80	-195.10	432.83	-426.99	0.00	0.00	0.00	
7,000.00	10.54	114.26	6,955.11	-202.62	449.51	-443.45	0.00	0.00	0.00	
7,043.46	10.54	114.26	6,997.83	-205.88	456.76	-450.60	0.00	0.00	0.00	
1st BSPG Lime										
7,100.00	10.54	114.26	7,053.42	-210.13	466.19	-459.90	0.00	0.00	0.00	
7,200.00	10.54	114.26	7,151.73	-217.65	482.87	-476.36	0.00	0.00	0.00	
7,300.00	10.54	114.26	7,250.04	-225.17	499.55	-492.81	0.00	0.00	0.00	
7,400.00	10.54	114.26	7,348.36	-232.69	516.23	-509.27	0.00	0.00	0.00	
7,500.00	10.54	114.26	7,446.67	-240.21	532.91	-525.72	0.00	0.00	0.00	
7,600.00	10.54	114.26	7,544.98	-247.73	549.59	-542.18	0.00	0.00	0.00	
7,700.00	10.54	114.26	7,643.29	-255.25	566.27	-558.63	0.00	0.00	0.00	
7,799.58	10.54	114.26	7,741.19	-262.73	582.88	-575.02	0.00	0.00	0.00	
7,800.00	10.50	114.37	7,741.60	-262.76	582.95	-575.09	10.00	-8.95	24.40	
7,900.00	4.70	185.32	7,840.85	-270.63	590.89	-582.80	10.00	-5.80	70.95	
8,000.00	11.55	244.70	7,939.92	-279.01	581.43	-573.11	10.00	6.85	59.38	
8,100.00	21.08	256.01	8,035.80	-287.66	554.86	-546.30	10.00	9.53	11.31	
8,200.00	30.90	260.40	8,125.59	-296.31	511.99	-503.19	10.00	9.82	4.39	
8,300.00	40.80	262.81	8,206.55	-304.70	454.11	-445.09	10.00	9.90	2.41	
8,372.93	48.04	264.03	8,258.60	-310.50	403.43	-394.27	10.00	9.93	1.67	
1st BSPG Sand										
8,400.00	50.73	264.42	8,276.22	-312.57	382.99	-373.77	10.00	9.94	1.41	
8,500.00	60.69	265.61	8,332.49	-319.69	300.78	-291.39	10.00	9.95	1.20	
8,600.00	70.65	266.60	8,373.64	-325.84	209.99	-200.46	10.00	9.96	0.98	

Pathfinder - A Schlumberger Company

Planning Report

Database	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Taylor Draw 7 Fed #4
Company	Devon Energy, Inc	TVD Reference:	WELL @ 3641.00usft (Original Well Elev)
Project:	Lea County (NAD83)	MD Reference:	WELL @ 3641.00usft (Original Well Elev)
Site	Taylor Draw 7 Fed	North Reference:	Gnd
Well:	Taylor Draw 7 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,674.91	78.11	267.26	8,393.80	-329.69	138.00	-128.39	10.00	9.96	0.88
1BSS Mid									
8,700.00	80.61	267.47	8,398.43	-330.83	113.37	-103.74	10.00	9.97	0.84
8,800.00	90.58	268.29	8,406.11	-334.51	13.86	-4.16	10.00	9.97	0.82
8,806.74	91.25	268.34	8,406.00	-334.71	7.13	2.57	10.00	9.97	0.81
8,900.00	91.25	268.34	8,403.97	-337.40	-86.07	95.81	0.00	0.00	0.00
9,000.00	91.25	268.34	8,401.79	-340.29	-186.01	195.79	0.00	0.00	0.00
9,100.00	91.25	268.34	8,399.61	-343.18	-285.94	295.76	0.00	0.00	0.00
9,200.00	91.25	268.34	8,397.43	-346.07	-385.88	395.74	0.00	0.00	0.00
9,300.00	91.25	268.34	8,395.25	-348.96	-485.81	495.72	0.00	0.00	0.00
9,400.00	91.25	268.34	8,393.07	-351.85	-585.75	595.69	0.00	0.00	0.00
9,500.00	91.25	268.34	8,390.89	-354.73	-685.68	695.67	0.00	0.00	0.00
9,600.00	91.25	268.34	8,388.71	-357.62	-785.62	795.65	0.00	0.00	0.00
9,700.00	91.25	268.34	8,386.54	-360.51	-885.55	895.62	0.00	0.00	0.00
9,800.00	91.25	268.34	8,384.36	-363.40	-985.49	995.60	0.00	0.00	0.00
9,900.00	91.25	268.34	8,382.18	-366.29	-1,085.42	1,095.57	0.00	0.00	0.00
10,000.00	91.25	268.34	8,380.00	-369.18	-1,185.35	1,195.55	0.00	0.00	0.00
10,100.00	91.25	268.34	8,377.82	-372.07	-1,285.29	1,295.53	0.00	0.00	0.00
10,200.00	91.25	268.34	8,375.64	-374.96	-1,385.22	1,395.50	0.00	0.00	0.00
10,300.00	91.25	268.34	8,373.46	-377.85	-1,485.16	1,495.48	0.00	0.00	0.00
10,400.00	91.25	268.34	8,371.28	-380.74	-1,585.09	1,595.46	0.00	0.00	0.00
10,500.00	91.25	268.34	8,369.10	-383.62	-1,685.03	1,695.43	0.00	0.00	0.00
10,600.00	91.25	268.34	8,366.92	-386.51	-1,784.96	1,795.41	0.00	0.00	0.00
10,700.00	91.25	268.34	8,364.75	-389.40	-1,884.90	1,895.38	0.00	0.00	0.00
10,800.00	91.25	268.34	8,362.57	-392.29	-1,984.83	1,995.36	0.00	0.00	0.00
10,900.00	91.25	268.34	8,360.39	-395.18	-2,084.76	2,095.34	0.00	0.00	0.00
11,000.00	91.25	268.34	8,358.21	-398.07	-2,184.70	2,195.31	0.00	0.00	0.00
11,100.00	91.25	268.34	8,356.03	-400.96	-2,284.63	2,295.29	0.00	0.00	0.00
11,200.00	91.25	268.34	8,353.85	-403.85	-2,384.57	2,395.27	0.00	0.00	0.00
11,300.00	91.25	268.34	8,351.67	-406.74	-2,484.50	2,495.24	0.00	0.00	0.00
11,400.00	91.25	268.34	8,349.49	-409.63	-2,584.44	2,595.22	0.00	0.00	0.00
11,500.00	91.25	268.34	8,347.31	-412.51	-2,684.37	2,695.20	0.00	0.00	0.00
11,600.00	91.25	268.34	8,345.13	-415.40	-2,784.31	2,795.17	0.00	0.00	0.00
11,700.00	91.25	268.34	8,342.95	-418.29	-2,884.24	2,895.15	0.00	0.00	0.00
11,800.00	91.25	268.34	8,340.78	-421.18	-2,984.18	2,995.12	0.00	0.00	0.00
11,900.00	91.25	268.34	8,338.60	-424.07	-3,084.11	3,095.10	0.00	0.00	0.00
12,000.00	91.25	268.34	8,336.42	-426.96	-3,184.04	3,195.08	0.00	0.00	0.00
12,100.00	91.25	268.34	8,334.24	-429.85	-3,283.98	3,295.05	0.00	0.00	0.00
12,200.00	91.25	268.34	8,332.06	-432.74	-3,383.91	3,395.03	0.00	0.00	0.00
12,300.00	91.25	268.34	8,329.88	-435.63	-3,483.85	3,495.01	0.00	0.00	0.00
12,400.00	91.25	268.34	8,327.70	-438.51	-3,583.78	3,594.98	0.00	0.00	0.00
12,500.00	91.25	268.34	8,325.52	-441.40	-3,683.72	3,694.96	0.00	0.00	0.00
12,600.00	91.25	268.34	8,323.34	-444.29	-3,783.65	3,794.93	0.00	0.00	0.00
12,700.00	91.25	268.34	8,321.16	-447.18	-3,883.59	3,894.91	0.00	0.00	0.00
12,800.00	91.25	268.34	8,318.99	-450.07	-3,983.52	3,994.89	0.00	0.00	0.00
12,900.00	91.25	268.34	8,316.81	-452.96	-4,083.45	4,094.86	0.00	0.00	0.00
13,000.00	91.25	268.34	8,314.63	-455.85	-4,183.39	4,194.84	0.00	0.00	0.00
13,100.00	91.25	268.34	8,312.45	-458.74	-4,283.32	4,294.82	0.00	0.00	0.00
13,200.00	91.25	268.34	8,310.27	-461.63	-4,383.26	4,394.79	0.00	0.00	0.00
13,300.00	91.25	268.34	8,308.09	-464.52	-4,483.19	4,494.77	0.00	0.00	0.00
13,400.00	91.25	268.34	8,305.91	-467.40	-4,583.13	4,594.74	0.00	0.00	0.00
13,441.82	91.25	268.34	8,305.00	-468.61	-4,624.92	4,636.55	0.00	0.00	0.00

Pathfinder - A Schlumberger Company

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: Taylor Draw 7 Fed #4
Company:	Devon Energy, Inc	TVD Reference:	WELL @ 3641.00usft (Original Well Elev)
Project:	Lea County (NAD83)	MD Reference:	WELL @ 3641.00usft (Original Well Elev)
Site:	Taylor Draw 7 Fed	North Reference:	Grid
Well:	Taylor Draw 7 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Design #1		

Design Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
BHL - Taylor Draw 7 Fed		0.00	0.00	8,305.00	-468.61	-4,624.92	607,886.04	701,399.58	32° 40' 12.166 N
- plan hits target center									103° 48' 47.408 W
- Point									
Heel - Taylor Draw 7 Fed		0.00	0.00	8,406.00	-334.71	7.13	608,019.95	706,031.62	32° 40' 13.263 N
- plan hits target center									103° 47' 53.211 W
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
850.00	850.00	Rustler		-1.25	268.34	
1,050.00	1,050.00	Top of Salt		-1.25	268.34	
2,633.00	2,633.00	Base of Salt		-1.25	268.34	
2,893.00	2,893.00	Capitan		-1.25	268.34	
3,629.00	3,629.00	Queen		-1.25	268.34	
5,396.75	5,378.92	Delaware		-1.25	268.34	
7,043.46	6,997.83	1st BSPG Lime		-1.25	268.34	
8,372.93	8,258.60	1st BSPG Sand		-1.25	268.34	
8,674.91	8,393.80	1BSS Mid		-1.25	268.34	

Devon Energy, Inc.
Taylor Draw 7 Fed #4 - Design #1

Lea County (NAD83)
Taylor Draw 7 Fed
Your Ref:

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0		0	0	0	0	0	0
100		0	0	100	0	0	0
200		0	0	200	0	0	0
300		0	0	300	0	0	0
400		0	0	400	0	0	0
500		0	0	500	0	0	0
600		0	0	600	0	0	0
700		0	0	700	0	0	0
800		0	0	800	0	0	0
900		0	0	900	0	0	0
1000		0	0	1000	0	0	0
1100		0	0	1100	0	0	0
1200		0	0	1200	0	0	0
1300		0	0	1300	0	0	0
1400		0	0	1400	0	0	0
1500		0	0	1500	0	0	0
1600		0	0	1600	0	0	0
1700		0	0	1700	0	0	0
1800		0	0	1800	0	0	0
1900		0	0	1900	0	0	0
2000		0	0	2000	0	0	0
2100		0	0	2100	0	0	0
2200		0	0	2200	0	0	0
2300		0	0	2300	0	0	0
2400		0	0	2400	0	0	0
2500		0	0	2500	0	0	0
2600		0	0	2600	0	0	0
2700		0	0	2700	0	0	0
2800		0	0	2800	0	0	0
2900		0	0	2900	0	0	0
3000		0	0	3000	0	0	0
3100		0	0	3100	0	0	0

3200	0	0	3200	0	0	0	0
3300	0	0	3300	0	0	0	0
3400	0	0	3400	0	0	0	0
3500	0	0	3500	0	0	0	0
3600	0	0	3600	0	0	0	0
3700	0	0	3700	0	0	0	0
3800	0	0	3800	0	0	0	0
3900	0	0	3900	0	0	0	0
4000	0	0	4000	0	0	0	0
4100	0	0	4100	0	0	0	0
4200	0	0	4200	0	0	0	0
4300	5	114.264	4299.87	-1.79	3.98	-3.92	5
4400	10	114.264	4398.99	-7.15	15.87	-15.66	5
4410.85	10.542	114.264	4409.66	-7.95	17.63	-17.4	5
4500	10.542	114.264	4497.31	-14.65	32.51	-32.07	0
4600	10.542	114.264	4595.62	-22.17	49.19	-48.52	0
4700	10.542	114.264	4693.93	-29.69	65.87	-64.98	0
4800	10.542	114.264	4792.24	-37.21	82.55	-81.43	0
4900	10.542	114.264	4890.56	-44.73	99.23	-97.89	0
5000	10.542	114.264	4988.87	-52.24	115.91	-114.34	0
5100	10.542	114.264	5087.18	-59.76	132.59	-130.8	0
5200	10.542	114.264	5185.49	-67.28	149.27	-147.25	0
5300	10.542	114.264	5283.8	-74.8	165.95	-163.71	0
5400	10.542	114.264	5382.12	-82.32	182.63	-180.16	0
5500	10.542	114.264	5480.43	-89.84	199.31	-196.62	0
5600	10.542	114.264	5578.74	-97.36	215.99	-213.07	0
5700	10.542	114.264	5677.05	-104.87	232.67	-229.53	0
5800	10.542	114.264	5775.36	-112.39	249.35	-245.99	0
5900	10.542	114.264	5873.68	-119.91	266.03	-262.44	0
6000	10.542	114.264	5971.99	-127.43	282.71	-278.9	0
6100	10.542	114.264	6070.3	-134.95	299.39	-295.35	0
6200	10.542	114.264	6168.61	-142.47	316.07	-311.81	0
6300	10.542	114.264	6266.92	-149.99	332.75	-328.26	0
6400	10.542	114.264	6365.24	-157.5	349.43	-344.72	0
6500	10.542	114.264	6463.55	-165.02	366.11	-361.17	0
6600	10.542	114.264	6561.86	-172.54	382.79	-377.63	0
6700	10.542	114.264	6660.17	-180.06	399.47	-394.08	0
6800	10.542	114.264	6758.48	-187.58	416.15	-410.54	0
6900	10.542	114.264	6856.8	-195.1	432.83	-426.99	0
7000	10.542	114.264	6955.11	-202.62	449.51	-443.45	0
7100	10.542	114.264	7053.42	-210.13	466.19	-459.9	0
7200	10.542	114.264	7151.73	-217.65	482.87	-476.36	0
7300	10.542	114.264	7250.04	-225.17	499.55	-492.81	0
7400	10.542	114.264	7348.36	-232.69	516.23	-509.27	0
7500	10.542	114.264	7446.67	-240.21	532.91	-525.72	0
7600	10.542	114.264	7544.98	-247.73	549.59	-542.18	0
7700	10.542	114.264	7643.29	-255.25	566.27	-558.63	0

7799.58	10.542	114.264	7741.19	-262.73	582.88	-575.02	0
7850	6.426	134.707	7791.06	-266.62	589.09	-581.12	10
7900	4.703	185.32	7840.85	-270.63	590.89	-582.8	10
7950	7.269	228.445	7890.6	-274.77	588.33	-580.12	10
8000	11.552	244.699	7939.92	-279.01	581.43	-573.11	10
8050	16.247	251.971	7988.45	-283.32	570.25	-561.8	10
8100	21.079	256.013	8035.8	-287.66	554.86	-546.3	10
8150	25.973	258.594	8081.64	-292	535.39	-526.71	10
8200	30.899	260.401	8125.59	-296.31	511.99	-503.19	10
8250	35.844	261.753	8167.33	-300.55	484.82	-475.91	10
8300	40.8	262.815	8206.55	-304.7	454.11	-445.09	10
8350	45.765	263.683	8242.94	-308.71	420.08	-410.96	10
8400	50.735	264.415	8276.22	-312.57	382.99	-373.77	10
8450	55.709	265.051	8306.15	-316.24	343.12	-333.82	10
8500	60.686	265.615	8332.49	-319.69	300.78	-291.39	10
8550	65.665	266.126	8355.04	-322.9	256.29	-246.83	10
8600	70.646	266.599	8373.64	-325.84	209.99	-200.46	10
8650	75.628	267.043	8388.14	-328.49	162.23	-152.64	10
8700	80.61	267.469	8398.43	-330.83	113.37	-103.74	10
8750	85.594	267.882	8404.44	-332.84	63.79	-54.12	10
8800	90.577	268.289	8406.11	-334.51	13.86	-4.16	10
8806.74	91.249	268.344	8406	-334.71	7.13	2.57	10
8900	91.249	268.344	8403.97	-337.4	-86.07	95.81	0
9000	91.249	268.344	8401.79	-340.29	-186.01	195.79	0
9100	91.249	268.344	8399.61	-343.18	-285.94	295.76	0
9200	91.249	268.344	8397.43	-346.07	-385.88	395.74	0
9300	91.249	268.344	8395.25	-348.96	-485.81	495.72	0
9400	91.249	268.344	8393.07	-351.85	-585.75	595.69	0
9500	91.249	268.344	8390.89	-354.73	-685.68	695.67	0
9600	91.249	268.344	8388.71	-357.62	-785.62	795.65	0
9700	91.249	268.344	8386.54	-360.51	-885.55	895.62	0
9800	91.249	268.344	8384.36	-363.4	-985.49	995.6	0
9900	91.249	268.344	8382.18	-366.29	-1085.42	1095.57	0
10000	91.249	268.344	8380	-369.18	-1185.35	1195.55	0
10100	91.249	268.344	8377.82	-372.07	-1285.29	1295.53	0
10200	91.249	268.344	8375.64	-374.96	-1385.22	1395.5	0
10300	91.249	268.344	8373.46	-377.85	-1485.16	1495.48	0
10400	91.249	268.344	8371.28	-380.74	-1585.09	1595.46	0
10500	91.249	268.344	8369.1	-383.62	-1685.03	1695.43	0
10600	91.249	268.344	8366.92	-386.51	-1784.96	1795.41	0
10700	91.249	268.344	8364.75	-389.4	-1884.9	1895.38	0
10800	91.249	268.344	8362.57	-392.29	-1984.83	1995.36	0
10900	91.249	268.344	8360.39	-395.18	-2084.76	2095.34	0
11000	91.249	268.344	8358.21	-398.07	-2184.7	2195.31	0
11100	91.249	268.344	8356.03	-400.96	-2284.63	2295.29	0
11200	91.249	268.344	8353.85	-403.85	-2384.57	2395.27	0
11300	91.249	268.344	8351.67	-406.74	-2484.5	2495.24	0

11400	91.249	268.344	8349.49	-409.63	-2584.44	2595.22	0
11500	91.249	268.344	8347.31	-412.51	-2684.37	2695.19	0
11600	91.249	268.344	8345.13	-415.4	-2784.31	2795.17	0
11700	91.249	268.344	8342.95	-418.29	-2884.24	2895.15	0
11800	91.249	268.344	8340.78	-421.18	-2984.18	2995.12	0
11900	91.249	268.344	8338.6	-424.07	-3084.11	3095.1	0
12000	91.249	268.344	8336.42	-426.96	-3184.04	3195.08	0
12100	91.249	268.344	8334.24	-429.85	-3283.98	3295.05	0
12200	91.249	268.344	8332.06	-432.74	-3383.91	3395.03	0
12300	91.249	268.344	8329.88	-435.63	-3483.85	3495.01	0
12400	91.249	268.344	8327.7	-438.51	-3583.78	3594.98	0
12500	91.249	268.344	8325.52	-441.4	-3683.72	3694.96	0
12600	91.249	268.344	8323.34	-444.29	-3783.65	3794.93	0
12700	91.249	268.344	8321.16	-447.18	-3883.59	3894.91	0
12800	91.249	268.344	8318.99	-450.07	-3983.52	3994.89	0
12900	91.249	268.344	8316.81	-452.96	-4083.45	4094.86	0
13000	91.249	268.344	8314.63	-455.85	-4183.39	4194.84	0
13100	91.249	268.344	8312.45	-458.74	-4283.32	4294.82	0
13200	91.249	268.344	8310.27	-461.63	-4383.26	4394.79	0
13300	91.249	268.344	8308.09	-464.52	-4483.19	4494.77	0
13400	91.249	268.344	8305.91	-467.4	-4583.13	4594.74	0
13441.82	91.249	268.344	8305	-468.61	-4624.92	4636.55	0

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to WELL. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 268.340° (Grid).

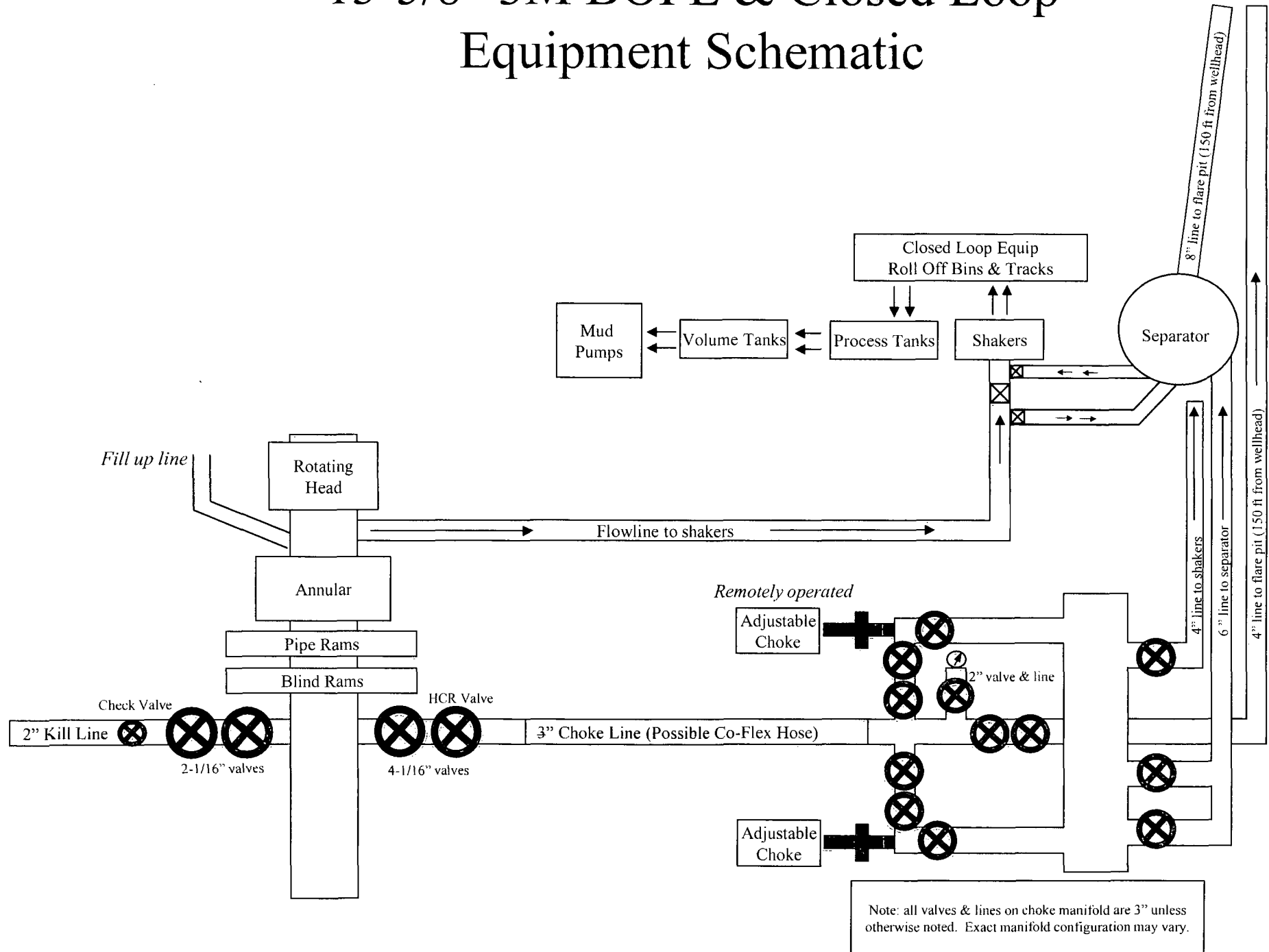
Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.289°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 13441.82ft.,
the Bottom Hole Displacement is 4648.60ft., in the Direction of 268.340° (Grid).

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



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, L.P.
Taylor Draw 7 Fed Com 4H

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 filings will be in operable condition to withstand a minimum of 3000psi working pressure.
4. All fittings will be flanged.
5. A fill bore safety valve tested to a minimum of 3000psi 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.



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly it is good practice to use lifting & safety equipment but not mandatory

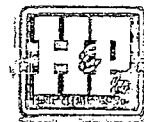
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
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Fax: +1 (832) 327-0148
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Hydrostatic Test Certificate

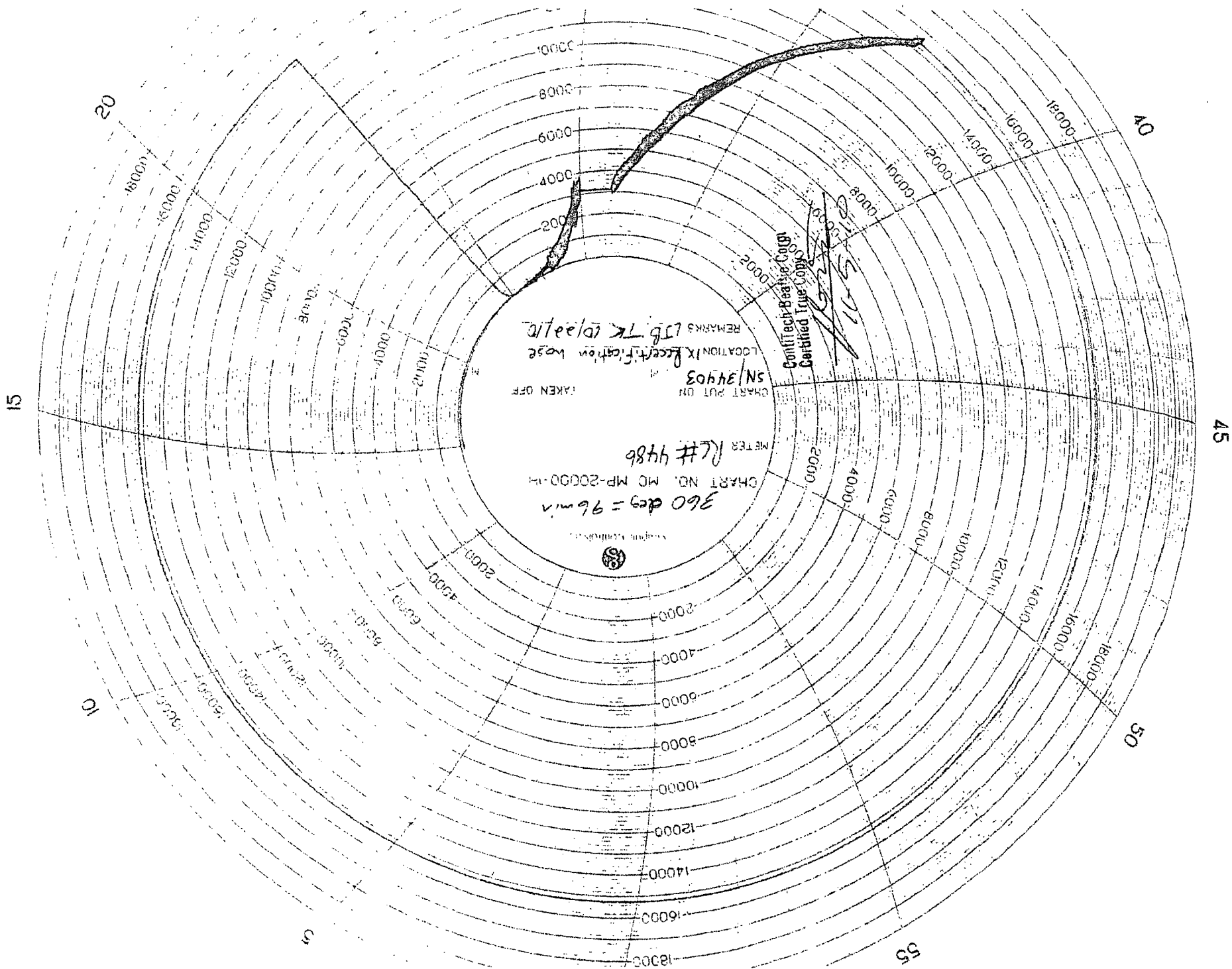


Certificate Number: 4520	PBC No: 10321	Customer Name & Address
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address	Accepted by ContiTech Beattie Inspection	Accepted by Client Inspection
ContiTech Beattie Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Josh Sims Date: 10/27/10	

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

These goods were made in the United States of America.

Item	Part No.	Description	Qty	Serial Number	As-Built Length (m)	Work Press.	Test Press.	Test Time (minutes)
1		3" ID 10K Choke & Kill Hose x 35ft OAL End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange Working Pressure: 10,000psi Test Pressure: 15,000psi Serial#: 49106	1	49106		10 kpsi	15 kpsi	60



H&P Flex Rig Location Layout

