

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

HOBBS OCD

5. Lease Serial No.

NMNM 116574

6. If Indian, Allottee or Tribe Name

RECEIVED

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well

☐ Gas Well

☐ Other

2. Name of Operator

Devon Energy Production Company, L.P.

8. Well Name and No.

BELL LAKE 24 FED 1H

3a. Address

333 West Sheridan Ave., Oklahoma City, OK 73102-5010

3b. Phone No. (include area code)

405-552-7848

9. API Well No.

30-025-41182

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

200 FSL & 660 FWL, SEC 24 T24S R32E, Unit "M"

10. Field and Pool or Exploratory Area

WC-025 G-07 S243225C; LOWER BONE SPRING

11. Country or Parish, State

Lea County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other REVISED BHL
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Devon respectfully requests to move the BHL on the Bell Lake 24 Fed 1H as follows:

Change from 990 FSL & 660 FWL; 13-24S-32E to 330 FNL & 660 FWL; 24-24S-32E.

As a result, the lateral length will be shortened by 1,320'.

Attached is an updated directional plan, adjusted cement volumes reflected in the revised APD drilling program and revised C-102.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

DAVID H. COOK

Title REGULATORY SPECIALIST

Signature

Date 08/23/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved by

Title

Office

SEP 9 2013

/s/ Chris Walls

Conditions of approval, if any, are attached. Approval of this notice 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.

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)

SEP 17 2013



Weatherford[®]

Drilling Services

Proposal



devon

BELL LAKE 24 FED #1H

LEA COUNTY, NM

WELL FILE: **PLAN 2**

AUGUST 22, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

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www.weatherford.com



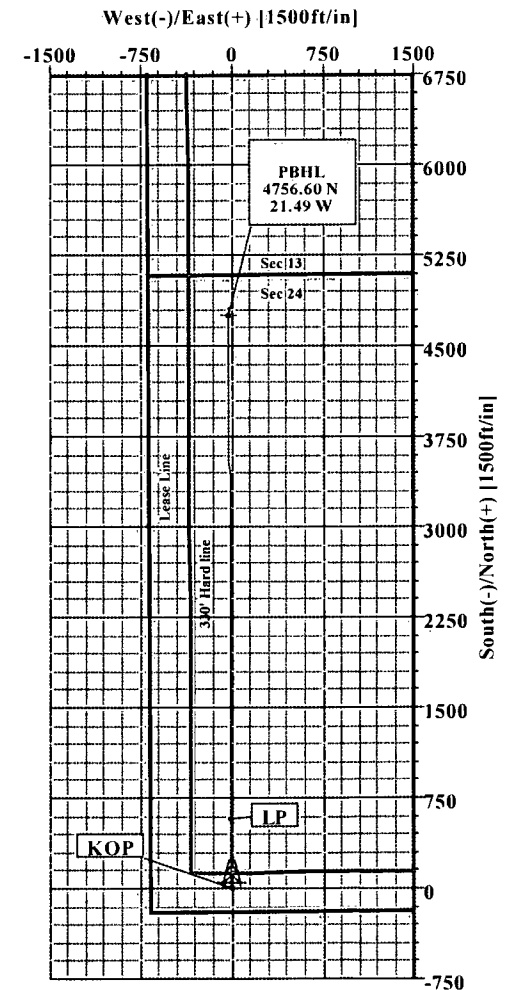
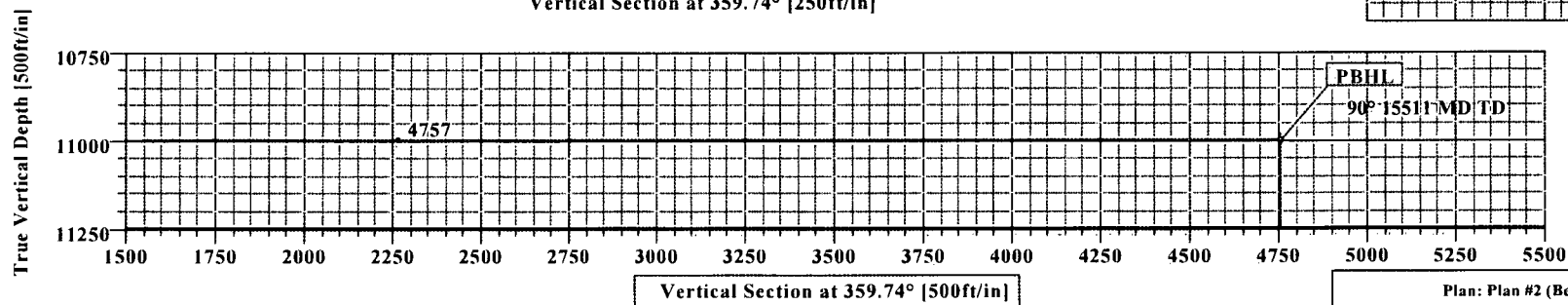
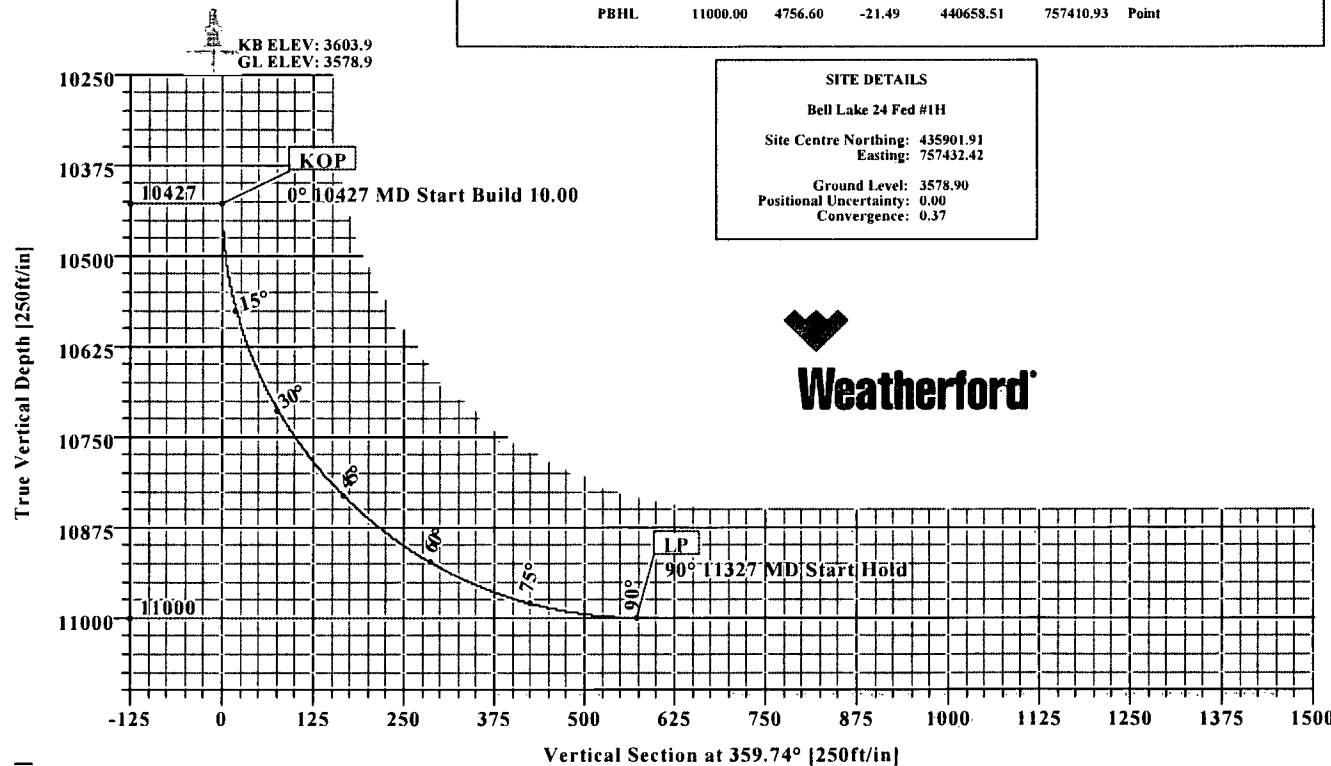
Bell Lake 24 Fed #1H
Lea County, New Mexico

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	359.74	0.00	0.00	0.00	0.00	0.00	0.00
2	10427.04	0.00	359.74	10427.04	0.00	0.00	0.00	0.00	0.00
3	11327.04	90.00	359.74	11000.00	572.95	-2.59	10.00	359.74	572.96
4	15510.73	90.00	359.74	11000.00	4756.60	-21.49	0.00	0.00	4756.65 PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Bell Lake 24 Fed #1H	0.00	0.00	435901.91	757432.42	32°11'47.182N	103°38'05.082W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	11000.00	4756.60	-21.49	440658.51	757410.93	Point

SITE DETAILS	
Bell Lake 24 Fed #1H	
Site Centre Northing:	435901.91
Easting:	757432.42
Ground Level:	3578.90
Positional Uncertainty:	0.00
Convergence:	0.37





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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 8/22/2013	Time: 16:21:19	Page: 1
Field: Lea County, New Mexico (NAD 83)	Co-ordinate(NE) Reference: Well: Bell Lake 24 Fed #1H, Grid North		
Site: Bell Lake 24 Fed #1H	Vertical (TVD) Reference: SITE 3603.9		
Well: Bell Lake 24 Fed #1H	Section (VS) Reference: Well (0.00N,0.00E,359.74Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #2	Date Composed: 8/22/2013
Principal: Yes	Version: 1
	Tied-to: From Surface

Site: Bell Lake 24 Fed #1H

Site Position:	Northing: 435901.91 ft	Latitude: 32 11 47.182 N
From: Map	Easting: 757432.42 ft	Longitude: 103 38 5.082 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3578.90 ft		Grid Convergence: 0.37 deg

Well: Bell Lake 24 Fed #1H**Slot Name:**

Well Position:	+N/-S 0.00 ft	Northing: 435901.91 ft	Latitude: 32 11 47.182 N
	+E/-W 0.00 ft	Easting: 757432.42 ft	Longitude: 103 38 5.082 W
Position Uncertainty: 0.00 ft			

Wellpath: 1

Current Datum: SITE	Height 3603.90 ft	Drilled From: Surface
Magnetic Data: 10/1/2013		Tie-on Depth: 0.00 ft
Field Strength: 48389 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S ft	Declination: 7.33 deg
		Mag Dip Angle: 60.09 deg
		+E/-W ft
		Direction deg

11000.00	0.00	0.00	359.74
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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	359.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10427.04	0.00	359.74	10427.04	0.00	0.00	0.00	0.00	0.00	0.00	
11327.04	90.00	359.74	11000.00	572.95	-2.59	10.00	10.00	0.00	359.74	
15510.73	90.00	359.74	11000.00	4756.60	-21.49	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
10400.00	0.00	359.74	10400.00	0.00	0.00	0.00	0.00	435901.91	757432.42	KOP
10427.04	0.00	359.74	10427.04	0.00	0.00	0.00	0.00	435901.91	757432.42	
10450.00	2.30	359.74	10449.99	0.46	0.00	0.46	10.00	435902.37	757432.42	
10500.00	7.30	359.74	10499.80	4.64	-0.02	4.64	10.00	435906.55	757432.40	
10550.00	12.30	359.74	10549.06	13.14	-0.06	13.14	10.00	435915.05	757432.36	
10600.00	17.30	359.74	10597.39	25.91	-0.12	25.91	10.00	435927.82	757432.30	
10650.00	22.30	359.74	10644.42	42.84	-0.19	42.84	10.00	435944.75	757432.23	
10700.00	27.30	359.74	10689.79	63.80	-0.29	63.80	10.00	435965.71	757432.13	
10750.00	32.30	359.74	10733.17	88.64	-0.40	88.64	10.00	435990.55	757432.02	
10800.00	37.30	359.74	10774.21	117.16	-0.53	117.16	10.00	436019.07	757431.89	
10850.00	42.30	359.74	10812.62	149.15	-0.67	149.15	10.00	436051.06	757431.75	
10900.00	47.30	359.74	10848.09	184.37	-0.83	184.37	10.00	436086.28	757431.59	
10950.00	52.30	359.74	10880.35	222.54	-1.01	222.55	10.00	436124.45	757431.41	
11000.00	57.30	359.74	10909.17	263.38	-1.19	263.39	10.00	436165.29	757431.23	
11050.00	62.30	359.74	10934.32	306.58	-1.39	306.59	10.00	436208.49	757431.03	
11100.00	67.30	359.74	10955.60	351.81	-1.59	351.81	10.00	436253.72	757430.83	
11150.00	72.30	359.74	10972.86	398.72	-1.80	398.72	10.00	436300.63	757430.62	
11200.00	77.30	359.74	10985.97	446.95	-2.02	446.95	10.00	436348.86	757430.40	
11250.00	82.30	359.74	10994.83	496.14	-2.24	496.15	10.00	436398.05	757430.18	
11300.00	87.30	359.74	10999.36	545.92	-2.47	545.93	10.00	436447.83	757429.95	
11327.04	90.00	359.74	11000.00	572.95	-2.59	572.96	10.00	436474.86	757429.83	LP
11400.00	90.00	359.74	11000.00	645.91	-2.92	645.92	0.00	436547.82	757429.50	
11500.00	90.00	359.74	11000.00	745.91	-3.37	745.92	0.00	436647.82	757429.05	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 8/22/2013	Time: 16:21:19	Page: 2
Field: Lea County, New Mexico (NAD 83)	Co-ordinate(NE) Reference:	Well: Bell Lake 24 Fed #1H, Grid North	
Site: Bell Lake 24 Fed #1H	Vertical (TVD) Reference:	SITE 3603.9	
Well: Bell Lake 24 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,359.74Azi)	
Wellpath: 1	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
11600.00	90.00	359.74	11000.00	845.91	-3.82	845.92	0.00	436747.82	757428.60	
11700.00	90.00	359.74	11000.00	945.91	-4.27	945.92	0.00	436847.82	757428.15	
11800.00	90.00	359.74	11000.00	1045.90	-4.73	1045.92	0.00	436947.81	757427.69	
11900.00	90.00	359.74	11000.00	1145.90	-5.18	1145.92	0.00	437047.81	757427.24	
12000.00	90.00	359.74	11000.00	1245.90	-5.63	1245.92	0.00	437147.81	757426.79	
12100.00	90.00	359.74	11000.00	1345.90	-6.08	1345.92	0.00	437247.81	757426.34	
12200.00	90.00	359.74	11000.00	1445.90	-6.53	1445.92	0.00	437347.81	757425.89	
12300.00	90.00	359.74	11000.00	1545.90	-6.98	1545.92	0.00	437447.81	757425.44	
12400.00	90.00	359.74	11000.00	1645.90	-7.44	1645.92	0.00	437547.81	757424.98	
12500.00	90.00	359.74	11000.00	1745.90	-7.89	1745.92	0.00	437647.81	757424.53	
12600.00	90.00	359.74	11000.00	1845.90	-8.34	1845.92	0.00	437747.81	757424.08	
12700.00	90.00	359.74	11000.00	1945.90	-8.79	1945.92	0.00	437847.81	757423.63	
12800.00	90.00	359.74	11000.00	2045.89	-9.24	2045.92	0.00	437947.80	757423.18	
12900.00	90.00	359.74	11000.00	2145.89	-9.70	2145.92	0.00	438047.80	757422.72	
13000.00	90.00	359.74	11000.00	2245.89	-10.15	2245.92	0.00	438147.80	757422.27	
13100.00	90.00	359.74	11000.00	2345.89	-10.60	2345.92	0.00	438247.80	757421.82	
13200.00	90.00	359.74	11000.00	2445.89	-11.05	2445.92	0.00	438347.80	757421.37	
13300.00	90.00	359.74	11000.00	2545.89	-11.50	2545.92	0.00	438447.80	757420.92	
13400.00	90.00	359.74	11000.00	2645.89	-11.95	2645.92	0.00	438547.80	757420.47	
13500.00	90.00	359.74	11000.00	2745.89	-12.41	2745.92	0.00	438647.80	757420.01	
13600.00	90.00	359.74	11000.00	2845.89	-12.86	2845.92	0.00	438747.80	757419.56	
13700.00	90.00	359.74	11000.00	2945.89	-13.31	2945.92	0.00	438847.80	757419.11	
13800.00	90.00	359.74	11000.00	3045.88	-13.76	3045.92	0.00	438947.79	757418.66	
13900.00	90.00	359.74	11000.00	3145.88	-14.21	3145.92	0.00	439047.79	757418.21	
14000.00	90.00	359.74	11000.00	3245.88	-14.66	3245.92	0.00	439147.79	757417.76	
14100.00	90.00	359.74	11000.00	3345.88	-15.12	3345.92	0.00	439247.79	757417.30	
14200.00	90.00	359.74	11000.00	3445.88	-15.57	3445.92	0.00	439347.79	757416.85	
14300.00	90.00	359.74	11000.00	3545.88	-16.02	3545.92	0.00	439447.79	757416.40	
14400.00	90.00	359.74	11000.00	3645.88	-16.47	3645.92	0.00	439547.79	757415.95	
14500.00	90.00	359.74	11000.00	3745.88	-16.92	3745.92	0.00	439647.79	757415.50	
14600.00	90.00	359.74	11000.00	3845.88	-17.38	3845.92	0.00	439747.79	757415.04	
14700.00	90.00	359.74	11000.00	3945.88	-17.83	3945.92	0.00	439847.79	757414.59	
14800.00	90.00	359.74	11000.00	4045.87	-18.28	4045.92	0.00	439947.78	757414.14	
14900.00	90.00	359.74	11000.00	4145.87	-18.73	4145.92	0.00	440047.78	757413.69	
15000.00	90.00	359.74	11000.00	4245.87	-19.18	4245.92	0.00	440147.78	757413.24	
15100.00	90.00	359.74	11000.00	4345.87	-19.63	4345.92	0.00	440247.78	757412.79	
15200.00	90.00	359.74	11000.00	4445.87	-20.09	4445.92	0.00	440347.78	757412.33	
15300.00	90.00	359.74	11000.00	4545.87	-20.54	4545.92	0.00	440447.78	757411.88	
15400.00	90.00	359.74	11000.00	4645.87	-20.99	4645.92	0.00	440547.78	757411.43	
15500.00	90.00	359.74	11000.00	4745.87	-21.44	4745.92	0.00	440647.78	757410.98	
15510.73	90.00	359.74	11000.00	4756.60	-21.49	4756.65	0.00	440658.51	757410.93	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			11000.00	4756.60	-21.49	440658.51	757410.93	32	12	34.252 N	103	38	4.972 W



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WFT Plan Report - X & Y's



Weatherford

Company:	Devon Energy	Date:	8/22/2013	Time:	16:21:19	Page:	3
Field:	Lea County, New Mexico (NAD 83)	Co-ordinate(NE) Reference:	Well: Bell Lake 24 Fed #1H, Grid North				
Site:	Bell Lake 24 Fed #1H	Vertical (TVD) Reference:	SITE 3603.9				
Well:	Bell Lake 24 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,359.74Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature				Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
10427.04	10427.04	KOP
11327.04	11000.00	LP
15510.73	11000.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: August 22, 2013
Job Number: _____
Customer: Devon Energy
Well Name: Bell Lake 24 Fed #1H
API Number: _____
Rig Name: _____
Location: Lea County, NM
Block: _____
Engineer: Patrick Rudolph

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 435901.910 USFT	Latitude 32.1964419 DEG
East/West 757432.420 USFT	Longitude -103.6347401 DEG
Grid Convergence: .37°	
Total Correction: +7.07°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.19644° N	32° 11 min 47.191 sec
Longitude =	103.63474° W	103° 38 min 5.064 sec

Magnetic Declination =	7.44°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6618
Local Field Strength =	48376 nT	Magnetic Vector X = 23926 nT
Magnetic Dip =	60.08°	Magnetic Vector Y = 3124 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 41929 nT
Spud Date =	Oct 01, 2013	Magnetic Vector H = 24129 nT

Signed: _____

Date: _____

Bell Lake 24 1H – APD DRILLING PLAN

KKS 12-21-12

Revised 1-29-2013 add pilot hole information

Revised 8-22-2013 modified BHL, production cement volumes, and new directional plan

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 – 1,150	13-3/8"	0 – 1,150	48#	STC	H-40
12-1/4"	1,150 – 4,900	9-5/8"	0 – 4,900	40#	LTC	HCK-55
8-3/4"	4,900 – 10,200	5-1/2"	0 – 10,200	17#	LTC	HCP-110
8-3/4"	10,200 – 15,510	5-1/2"	10,200– 15,510	17#	BTC	HCP-110

Note: only new casing will be utilized

An 8-3/4" pilot hole will be drilled to 11,200 ft, and plugged back to KOP with approx 300 sxs Class H, 15.6 ppg, 1.18 cf/sk cement.

MAXIMUM TVD in the lateral 11,000'

Design Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8", 48#, H-40, ST&C	1.43	3.21	5.83
9-5/8", 40#, HCK-55, LT&C	1.66	1.38	3.21
5-1/2" 17# HCP-110 LTC	1.45	2.07	1.69
5-1/2" 17# HCP-110 BTC	1.80	2.23	6.29

Mud Program:

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,150	8.4 – 9.0	30 – 34	N/C	FW
1,150 – 4,900	9.8 – 10.0	28 – 32	N/C	Brine
4,900 -15,510	8.6 – 9.0	28 – 32	N/C-12	FW

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, a 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 a 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.

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.

Cementing Program (cement volumes Surface 100%/ Intermediate 50% Production based on at least 25% excess)

13-3/8" Surface L 650 ft/ T500 ft.

Lead: 520 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: 515 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg

Yield: 1.35 cf/sk

9-5/8" Intermediate 3900 ft/ 1000ft

Lead: 1085 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: 360 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: 780 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: 1325 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: 960 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

Tail: 285 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water, 14.8

Yield: 1.33cf/sk

TOC for All Strings:

Surface:	0
Intermediate:	0
Production:	4,400 ft