ATS-13-1165 OCD Hobbs Form 3160-3 FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014 (March 2012) UNITED STATES RECEIVED DEPARTMENT OF THE INTERIOR BUREAU OF LAND NMNM-094118(BH) 5. Lease Serial No. BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No. **✓** DRILL REENTER la. Type of work: 8. Lease Name and Well No. Gas Well Other **RAGIN CAJUN 14 FEDERAL** Oil Well ✓ Single Zone Multiple Zone Devon Energy Production Company, L.P. 3*19-0*25 3a. Address 3b. Phone No. (include area code) 333 W. Sheridan Oklahoma City, OK 73102-5010 405-235-3611 Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 330' FSL & 330' FEL, P Sec 14, T26S, R34E At proposed prod. zone 990' FSL & 330' FEL, P Sec 11 PP: 330' FSL & 330' FEL Sec 14 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office NM Appox. 14 miles SW of Jal, NM LEA 15. Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of acres in lease 1760 ac (NMNM-094118) location to nearest See Attached Map property or lease line, ft. (Also to nearest drig. unit line, if any) 200 ac 20. BLM/BIA Bond No. on file 19. Proposed Depth 18. Distance from proposed location* to nearest well, drilling, completed, See Attached Map TVD: 9010' CO-1104: NMB-000801 applied for, on this lease, ft. MD: 14704' 21. Elevations (Show whether DF, KDB, RT, GL, etc.) Approximate date work will start* 23. Estimated duration 3223.7 (GL) As Soon As Possible 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: I. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 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). Such other site specific information and/or plans as may be required by the Name (Printed/Typed) Date 25. Signature David Cook 8/28/2013 Title Regulatory Compliance Specialist

Approved by (Signature) /s/ James Stovall Name (Printed/Typed)

Date DEC - 5 2013

Title

CARLSBAD FIELD OFFICE

FIELD MANAGER

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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL DEC 1 0 2013

DRILLING PROGRAM

Devon Energy Production Company, L.P. RAGIN CAJUN 14 FEDERAL 1H

Surface Location: 330 FSL & 330 FEL, Unit P, Sec 14 T26S R34E, LEA, NM Bottom Hole Location: 990 FSL & 330 FEL, Unit P, Sec 11 T26S R34E, LEA, NM

1) Geologic Name of Surface Formation:

Quaternary

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

a.	Fresh Water	180'	
b.	Rustler	727'	Barren
c.	Salado	915'	Barren
d.	Top of Salt	990'	Barren
e.	Castile	3531'	Barren
f.	Base of Salt	4910'	Barren
g.	Delaware	5191'	Oil/Gas
h.	Bell Canyon	5236'	Oil
i.	Cherry Canyon	6216'	Oil
j.	Brushy Canyon	7755'	Oil
	Total Depth	9010' TVD	
		14704' MD	

3) 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 and tested 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.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.



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.

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

Hole Size (in)	Hole Interval (ft)	Casing OD (in)	Casing Interval (ft)	Weight (lb)	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17-1/2	0-800 0	13-3/8	0-800	48	STC	H-40	2.06	4.62	8.39
12-1/4	800-5050	9-5/8	0-5056	40	LTC	HCK-55	2.13	1.34	3.12
8-3/4	5050-8200	5-1/2	0-8200	17	LTC	HCP-110	1.77	2.52	1.78
8-3/4	8200-14704	5-1/2	8200-14704	17	втс	HCP-110	2.24	2.77	5.14

Maximum Lateral TVD:

9010'

5) Proposed Mud Circulation System:

Depth (ft)	Mud Weight	Viscosity	Fluid Loss	Type System
0-800-1050	8.4-9.0	30-34	N/C	FW
800-5050, 250	9.8-10.0	28-32	N/C	BRINE
5050-14704	8.6-9.0	28-32	N/C-12	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 Program:

String	No. of	Wt. #/gal	Yld. cf/sx	Stage; Lead/Tail	Slurry Description
Surface	870	14.8	1.33	Lead	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
				<u>.</u>	
Intermediate	1130	12.9	1.85	Lead	(65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	430	14.8	1.33	Tail	Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water
Production	230	11.5	2.57	1st Lead	(50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 0.15% SA-1015 + 0.1% BWOC HR-601 + 0.25 lb/sk D-Air 5000 + 80.01 % Fresh Water
	330	12.5	1.96	2nd Lead	(65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 74.1 % Fresh Water
	1630	14.5	1.22	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC For All Strings:

Surface @ 0'

Intermediate @ 0'

Production @ 4550'
See COP

Cementing Notes:

- *Cement volumes are based on excess of at least 100% surface, 75% intermediate, and 25% production.
- *Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

7) 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 & 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.

8) 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 being used to drill this well. Estimated BHP 4000psi and Estimated BHT 142 degrees. No H2S is anticipated to be encountered.
- 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.

9) 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.



Weatherford[®]

Drilling Services

Proposal







BEGIN CAJUN 14 FEDERAL 1H

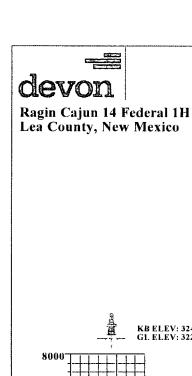
LEA COUNTY, NM

WELL FILE: PLAN 1

AUGUST 27, 2013

Weatherford International, Ltd.

P.O. Box 61028 Midland, TX 79711 USA +1.432.561.8892 Main +1.432.561.8895 Fax www.weatherford.com



8250

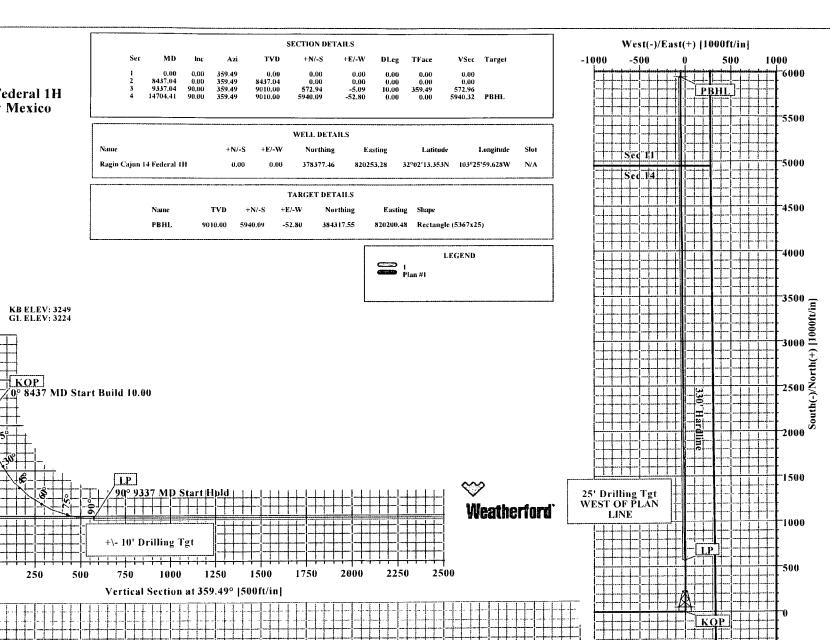
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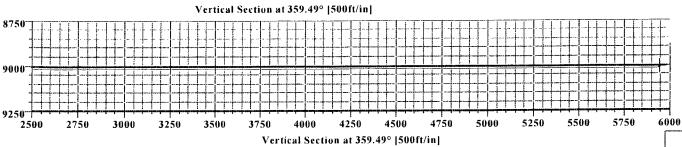
-250

250

True Vertical Depth [500ft/in]

True Vertical Depth [500ft/in]





Plan: Plan #1 (Ragin Cajun 14 Federal 1H/1)

Created By: Russell W. Joyner

Date: 8/27/2013



Weatherford WFT Plan Report - X & Y's



Company: Devon Energy

Lea County, New Mexico (NAD 83) Ragin Cajun 14 Federal 1H

Site:

Ragin Cajun 14 Federal 1H Well:

Wellpath: 1

Field:

Date: 8/27/2013 Time: 10:54:57

Co-ordinate(NE) Reference: Well: Ragin Cajun 14 Federal 1H

SITE 3249.0 Vertical (TVD) Reference:

Well (0.00N,0.00E,359.49Azi) Section (VS) Reference:

Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed:

Version:

8/27/2013

From Surface Principal: Yes Tied-to:

Lea County, New Mexico (NAD 83) Field:

Map SystemUS State Plane Coordinate System 1983

Geo Datum GRS 1980

Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone

Coordinate System: Well Centre

IGRF2010 Geomagnetic Model:

Site: Ragin Cajun 14 Federal 1H

Site Position: From: Map Northing: Easting:

378377.46 ft

Latitude:

2 13.353 N 32

0.00 ft Position Uncertainty: Ground Level:

3224.00 ft

820253.28 ft Longitude: North Reference:

103 25

59.628 W

Grid Convergence:

Grid 0.48 deg

Well: Ragin Cajun 14 Federal 1H Slot Name:

Well Position:

0.00 ft Northing: 0.00 ft Easting:

378377.46 ft Latitude: 820253.28 ft Longitude:

2 13.353 N 59.628 W 103 25

Position Uncertainty: 0.00 ft

+E/-W

Wellpath: 1

Drilled From:

Surface

Current Datum: SITE

Height 3249.00 ft

Tie-on Depth: Above System Datum: Mean Sea Level

0.00 ft

Magnetic Data: Field Strength:

10/30/2013 48306 nT

Declination: Mag Dip Angle: 7.22 deg

+E/-W

59.98 deg

Vertical Section: Depth From (TVD) +N/-Sft fţ ft

Direction deg

0.00 0.00 359.49

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100	ft deg/1001	ft deg/100ft	deg	
0.00 8437.04	0.00	359.49 359.49	0.00 8437.04	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00	-
9337.04	90.00	359.49	9010.00	572.94	-5.09	10.00	10.00	0.00	359.49	PBHL
14704.41	90.00	359.49	9010.00	5940.09	-52.80	0.00	0.00	0.00	0.00	

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE		Commen
ft	deg	deg	ft	ft	ft -	ft	deg/100ft	ft	ft		
8400.00	0.00	359.49	8400.00	0.00	0.00	0.00	0.00	378377.46	820253.28		
8437.04	0.00	359.49	8437.04	0.00	0.00	0.00	0.00	378377.46	820253.28	KOP	i
8500.00	6.30	359.49	8499.87	3.46	-0.03	3.46	10.00	378380.92	820253.25		
8600.00	16.30	359.49	8597.81	23.02	-0.20	23.02	10.00	378400.48	820253.08		l
8700.00	26.30	359.49	8690.87	59.29	-0.53	59.29	10.00	378436.75	820252.75		
8800.00	36.30	359.49	8776.21	111.17	-0.99	111.17	10.00	378488.63	820252.29		
8900.00	46.30	359.49	8851.24	177.07	-1.57	177.08	10.00	378554.53	820251.71		1
9000.00	56.30	359.49	8913.69	255.01	-2.27	255.02	10.00	378632.47	820251.01		ì
9100.00	66.30	359.49	8961.66	342.61	-3.05	342.62	10.00	378720.07	820250.23		
9200.00	76.30	359.49	8993.69	437.20	-3.89	437.22	10.00	378814.66	820249.39		
9300.00	86.30	359.49	9008.80	535.92	-4.76	535.94	10.00	378913.38	820248.52		
9337.04	90.00	359.49	9010.00	572.94	-5.09	572.96	10.00	378950.40	820248.19	LP	ŀ
9400.00	90.00	359.49	9010.00	635.89	-5.65	635.92	0.00	379013.35	820247.63		
9500.00	90.00	359.49	9010.00	735.89	-6.54	735.92	0.00	379113.35	820246.74		ł
9600.00	90.00	359.49	9010.00	835.88	-7.43	835.92	0.00	379213.34	820245.85		
9700.00	90.00	359.49	9010.00	935.88	-8.32	935.92	0.00	379313.34	820244.96		1
9800.00	90.00	359.49	9010.00	1035.87	-9.21	1035.92	0.00	379413.33	820244.07		



Weatherford WFT Plan Report - X & Y's



Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Ragin Cajun 14 Federal 1H
Well: Ragin Cajun 14 Federal 1H

Wellpath: 1

Date: 8/27/2013 Time: 10:54:57

Co-ordinate(NE) Reference: Well: Ragin Cajun 14 Federal 1H

Vertical (TVD) Reference: SITE 3249.0

Well (0.00N,0.00E,359.49Azi) Section (VS) Reference:

Survey Calculation Method: Minimum Curvature Db: Sybase

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapÉ	Comm
ft	deg	deg	ft	ft	ft ft	ft	deg/100ft	ft	ft	
9900.00	90.00	359.49	9010.00	1135.87	-10.10	1135.92	0.00	379513.33	820243.18	
10000.00	90.00	359.49	9010.00	1235.87	-10.99	1235.92	0.00	379613.33	820242.29	
10100.00	90.00	359.49	9010.00	1335.86	-11.87	1335.92	0.00	379713.32	820241.41	
10200.00	90.00	359.49	9010.00	1435.86	-12.76	1435.92	0.00	379813.32	820240.52	
10300.00	90.00	359.49	9010.00	1535.85	-13.65	1535.92	0.00	379913.31	820239.63	
10400.00	90.00	359.49	9010.00	1635.85	-14.54	1635.92	0.00	380013.31	820238.74	
10500.00	90.00	359.49	9010.00	1735.85	-15.43	1735.92	0.00	380113.31	820237.85	
10600.00	90.00	359.49	9010.00	1835.84	-16.32	1835.92	0.00	380213.30	820236.96	
10700.00	90.00	359.49	9010.00	1935.84	-17.21	1935.92	0.00	380313.30	820236.07	
10800.00	90.00	359.49	9010.00	2035.84	-18.10	2035.92	0.00	380413.30	820235.18	
10900.00	90.00	359.49	9010.00	2135.83	-18.98	2135.92	0.00	380513.29	820234.30	
11000.00	90.00	359.49	9010.00	2235.83	-19.87	2235.92	0.00	380613.29	820233.41	
11100.00	90.00	359.49	9010.00	2335.82	-20.76	2335.92	0.00	380713.28	820232.52	
11200.00	90.00	359.49	9010.00	2435.82	-21.65	2435.92	0.00	380813.28	820231.63	
11300.00	90.00	359.49	9010.00	2535.82	-22.54	2535.92	0.00	380913.28	820230.74	
11400.00	90.00	359.49	9010.00	2635.81	-23.43	2635.92	0.00	381013.27	820229.85	
11500.00	90.00	359.49	9010.00	2735.81	-24.32	2735.92	0.00	381113.27	820228.96	
11600.00	90.00	359.49	9010.00	2835.80	-25.21	2835.92	0.00	381213.26	820228.07	
11700.00	90.00	359.49	9010.00	2935.80	-26.10	2935.92	0.00	381313.26	820227.18	
11800.00	90.00	359.49	9010.00	3035.80	-26.98	3035.92	0.00	381413.26	820226.30	
11900.00	90.00	359.49	9010.00	3135.79	-27.87	3135.92	0.00	381513.25	820225.41	
12000.00	90.00	359.49	9010.00	3235.79	-28.76	3235.92	0.00	381613.25	820224.52	
12100.00	90.00	359.49	9010.00	3335.78	-29.65	3335.92	0.00	381713.24	820223.63	
12200.00	90.00	359.49	9010.00	3435.78	-30.54	3435.92	0.00	381813.24	820222.74	
12300.00	90.00	359.49	9010.00	3535.78	-31.43	3535.92	0.00	381913.24	820221.85	
12400.00	90.00	359.49	9010.00	3635.77	-32.32	3635.92	0.00	382013.23	820220.96	
12500.00	90.00	359.49	9010.00	3735.77	-33.21	3735.92	0.00	382113.23	820220.07	
12600.00	90.00	359.49	9010.00	3835.76	-34.10	3835.92	0.00	382213.22	820219.18	
12700.00	90.00	359.49	9010.00	3935.76	-34.98	3935.92	0.00	382313.22	820218.30	
12800.00	90.00	359.49	9010.00	4035.76	-35.87	4035.92	0.00	382413.22	820217.41	
12900.00	90.00	359.49	9010.00	4135.75	-36.76	4135.92	0.00	382513.21	820216.52	
13000.00	90.00	359.49	9010.00	4235.75	-37.65	4235.92	0.00	382613.21	820215.63	
13100.00	90.00	359.49	9010.00	4335.74	-38.54	4335.92	0.00	382713.20	820214.74	
13200.00	90.00	359.49	9010.00	4435.74	-39.43	4435.92	0.00	382813.20	820213.85	
13300.00	90.00	359.49	9010.00	4535.74	-40.32	4535.92	0.00	382913.20	820212.96	
13400.00	90.00	359.49	9010.00	4635.73	-4 1.21	4635.92	0.00	383013.19	820212.07	
13500.00	90.00	359.49	9010.00	4735.73	-42.09	4735.92	0.00	383113.19	820211.19	
13600.00	90.00	359.49	9010.00	4835.72	-42.98	4835.92	0.00	383213.18	820210.30	
13700.00	90.00	359.49	9010.00	4935.72	-43.87	4935.92	0.00	383313.18	820209.41	
13800.00	90.00	359.49	9010.00	5035.72	-44.76	5035.92	0.00	383413.18	820208.52	
13900.00	90.00	359.49	9010.00	5135.71	-45.65	5135.92	0.00	383513.17	820207.63	
14000.00	90.00	359.49	9010.00	5235.71	-46.54	5235.92	0.00	383613.17	820206.74	
14100.00	90.00	359.49	9010.00	5335.70	-47.43	5335.92	0.00	383713.16	820205.85	
14200.00	90.00	359.49	9010.00	5435.70	-48.32	5435.92	0.00	383813.16	820204.96	
14300.00	90.00	359.49	9010.00	5535.70	-49.21	5535.92	0.00	383913.16	820204.07	
14400.00	90.00	359.49	9010.00	5635.69	-50.09	5635.92	0.00	384013.15	820203.19	
14500.00	90.00	359.49	9010.00	5735.69	-50.98	5735.92	0.00	384113.15	820202.30	
14600.00	90.00	359.49	9010.00	5835.69	-51.87	5835.92	0.00	384213.15	820201.41	
14700.00	90.00	359.49	9010.00	5935.68	-52.76	5935.92	0.00	384313.14	820200.52	
14704:41	90.00	359.49	9010.00	5940.09	-52.80	5940.32	0.00	384317.55	820200.48	PBHL



Weatherford WFT Plan Report - X & Y's



Company: Devon Energy

Lea County, New Mexico (NAD 83)

Field: Site: Well:

Ragin Cajun 14 Federal 1H Ragin Cajun 14 Federal 1H

Wellpath: 1

Time: 10:54:57 Date: 8/27/2013

Co-ordinate(NE) Reference: Well: Ragin Cajun 14 Federal 1H

Vertical (TVD) Reference: SITE 3249.0

Well (0.00N,0.00E,359.49Azi)

Section (VS) Reference: Survey Calculation Method: Minimum Curvature

Db: Sybase

Targets

Name	Descript Dip.	ion Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft		- Latit Min		Deg M		de Sec
PBHL	- (5207.05)		9010.00	5940.09	-52.80	384317.55	820200.48	32	3 12.	135 N	103 2	5 59.66	66 W

-Rectangle (5367x25)

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD						
8437.04	8437.04	KOP				 	
9337.04	9010.00	LP					
14704.40	9010.00	PBHL					

Formations

MD	TVD	Formations	Lithology	Dip Angle Dip Direction
	<u></u>			



Weatherford^{*}

Weatherford Drilling Services

GeoDec v5.03

Report Date:	August 27, 2013								
Job Number: Customer:	Devon Energy								
Well Name:	Ragin Cajun 14 Federal 1H								
API Number:									
Rig Name:									
Location:	Lea County, NM								
Block:									
Engineer:	RWJ								
US State Plane 19	983	Geodetic Latitude / Longitude							
System: New Mex	cico Eastern Zone	System: Latitude / Longitude							
Projection: Transv	verse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude							
Datum: North Ame	erican Datum 1983	Datum: North American Datum 1983							
Ellipsoid: GRS 19	80	Ellipsoid: GRS 1980							
North/South 3783	77.460 USFT	Latitude 32.0370446 DEG							
East/West 82025	3.280 USFT	Longitude -103.4332246 DEG							
Grid Convergence	<u>2: .48°</u>								
Total Correction:	+6.84°								
Geodetic Location	WGS84 Elevation	= 0.0 Meters							
Latitude =	32.03704° N 32°	2 min 13.361 sec							
Longitude = 1	03.43322° W 103° 2	25 min 59.609 sec							
Magnetic Declinat	ion = 7.32°	[True North Offset]							
Local Gravity =	.9988 g	CheckSum = 6856							
Local Field Streng	yth = 48294 nT	Magnetic Vector X = 23976 nT							
Magnetic Dip =	59.96°	Magnetic Vector Y = 3080 nT							
Magnetic Model =	bggm2013	Magnetic Vector Z = 41809 nT							
Spud Date =	Oct 30, 2013	Magnetic Vector H = 24173 nT							
Cionado	· · · · · · · · · · · · · · · · · · ·	Deter							
Signed:		Date:							

Weatherford WFT Plan Report - X & Y's

Date: 8/27/2013 Company: Devon Energy Time: 10:55:56 Page: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Field: Reference: Well: Ragin Cajun 14 Federal 1H Vertical (TVD) Ragin Cajun 14 Federal 1H SITE 3249.0 Reference: Ragin_Cajun 14 Federal 1H Section (VS) well: Well (0.00N, 0.00E, 359.49Azi) Reference: Survey Calculation Wellpath: 1 Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 8/27/2013

Version:
1
Principal: Yes
Tied-to:

Field: Lea County, New Mexico (NAD 83)

From Surface

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: Ragin Cajun 14 Federal 1H

Site Position: Northing: 378377.46 ft Latitude: 32 2 13.353 N

From: Map Easting: 820253.28 ft Longitude: 103 25 59.628 W

Position Uncertainty: 0.00 ft North Reference:

Grid
Ground Level: 3224.00 ft Grid Convergence: 0.48 deg

Well: Ragin Cajun 14 Federal 1H Slot Name:

Well Position: +N/-S 0.00 ft Northing: 378377.46 ft Latitude: 32 2 13.353 N

+E/-W 0.00 ft Easting: 820253.28 ft Longitude:

103 25 59.628 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From:
Surface

Tie-on Depth:

Current Datum: SITE Height 3249.00 ft Above System Datum: Mean Sea Level

Magnetic Data: 10/30/2013 Declination:

Page 1

DVN RAGIN CAJUN 14 FEDERAL 1H P1 SVY.TXT							
7.22 deg Field Strength: 48306 nT 59.98 deg					Mag Dip Angle:		
Vertical Section:Depth From (TVD) Direction			+N/-S	+N/-S		+E/-W	
deg	ft	ft	ft		ft		
_	0.00	0.00		0.00			
359.49	C						
MD	n Information Incl Azim FO Target	TVD	+N/-S	+E/-W	DLS	Build	
ft	deg deg	ft leg	ft	ft			
0.00	0.00 359.49	0.00	0.00	0.00	0.00	0.00	
8437.04	0.00 359.49	8437.04	0.00	0.00	0.00	0.00	
9337.04	90.00 359.49	9010.00	572.94	-5.09	10.00	10.00	
14704.41	0.49 90.00 359.49 0.00 PBHL	9010.00	5940.09	-52.80	0.00	0.00	
Survey	7.00 FBRL						
MD	Incl Azim	TVD	N/S	E/W	VS	DLS	
MapN ft	MapE deg deg	Comme ft	ft	ft	ft	deg/100ft	
ft	ft						
8400.00 378377.46	0.00 359.49 820253.28	8400.00	0.00	0.00	0.00	0.00	
8437.04 378377.46	0.00 359.49 820253.28	8437.04 KOP	0.00	0.00	0.00	0.00	
8500.00 378380.92	6.30 359.49	8499.87	3.46	-0.03	3.46	10.00	
8600.00 378400.48	16.30 359.49	8597.81	23.02	-0.20	23.02	10.00	
8700.00 378436.75	26.30 359.49	8690.87	59.29	-0.53	59.29	10.00	
8800.00	36.30 359.49	8776.21	111.17	-0.99	111.17	10.00	
378488.63 8900.00		8851.24	177.07	-1.57	177.08	10.00	
378554.53	820251.71		255.01	-2.27	255.02	10.00	
9000.00 378632.47		8913.69					
9100.00 378720.07		8961.66	342.61	-3.05	342.62	10.00	
9200.00 378814.66	76.30 359.49 820249.39	8993.69	437.20	-3.89	437.22	10.00	
9300.00	86.30 359.49	9008.80	535.92	-4.76	535.94	10.00	
378913.38 9337.04	90.00 359.49	9010.00	572.94	-5.09	572.96	10.00	
378950.40 9400.00	90.00 359.49	P 9010.00	635.89	-5.65	635.92	0.00	
379013.35 9500.00	90.00 359.49	9010.00	735.89	-6.54	735.92	0.00	
379113.35 9600.00	90.00 359.49	9010.00	835.88	-7.43	835.92	0.00	
379213.34	820245.85		_				

Page 2

	DVII KAGIII	CAJON IT II	DEIVAL III I I	24111771		
9700.00	90.00 359.49	9010.00	935.88	-8.32	935.92	0.00
379313.34 9800.00	820244.96 90.00 359.49	9010.00	1035.87	-9.21	1035.92	0.00
379413.33 9900.00	820244.07 90.00 359.49	9010.00	1135.87	-10.10	1135.92	0.00
379513.33 10000.00	820243.18 90.00 359.49 820242.29	9010.00	1235.87	-10.99	1235.92	0.00
379613.33 10100.00 379713.32	90.00 359.49 820241.41	9010.00	1335.86	-11.87	1335.92	0.00
10200.00 379813.32	90.00 359.49 820240.52	9010.00	1435.86	-12.76	1435.92	0.00
10300.00 379913.31	90.00 359.49 820239.63	9010.00	1535.85	-13.65	1535.92	0.00
10400.00	90.00 359.49 820238.74	9010.00	1635.85	-14.54	1635.92	0.00
380013.31 10500.00	90.00 359.49 820237.85	9010.00	1735.85	-15.43	1735.92	0.00
380113.31 10600.00 380213.30	90.00 359.49 820236.96	9010.00	1835.84	-16.32	1835.92	0.00
10700.00	90.00 359.49	9010.00	1935.84	-17.21	1935.92	0.00
380313.30 10800.00	820236.07 90.00 359.49	9010.00	2035.84	-18.10	2035.92	0.00
380413.30 10900.00	820235.18 90.00 359.49	9010.00	2135.83	-18.98	2135.92	0.00
380513.29 11000.00	820234.30 90.00 359.49	9010.00	2235.83	-19.87	2235.92	0.00
380613.29 11100.00 380713.28	820233.41 90.00 359.49 820232.52	9010.00	2335.82	-20.76	2335.92	0.00
11200.00	90.00 359.49	9010.00	2435.82	-21.65	2435.92	0.00
380813.28 11300.00	820231.63 90.00 359.49	9010.00	2535.82	-22.54	2535.92	0.00
380913.28 11400.00	820230.74 90.00 359.49	9010.00	2635.81	-23.43	2635.92	0.00
381013.27 11500.00	820229.85 90.00 359.49 820228.96	9010.00	2735.81	-24.32	2735.92	0.00
381113.27 11600.00 381213.26	90.00 359.49 820228.07	9010.00	2835.80	-25.21	2835.92	0.00
11700.00	90.00 359.49 820227.18	9010.00	2935.80	-26.10	2935.92	0.00
381313.26 11800.00 381413.26	90.00 359.49 820226.30	9010.00	3035.80	-26.98	3035.92	0.00
11900.00	90.00 359.49 820225.41	9010.00	3135.79	-27.87	3135.92	0.00
381513.25 12000.00	90.00 359.49 820224.52	9010.00	3235.79	-28.76	3235.92	0.00
381613.25 12100.00 381713.24	90.00 359.49 820223.63	9010.00	3335.78	-29.65	3335.92	0.00
12200.00	90.00 359.49	9010.00	3435.78	-30.54	3435.92	0.00
381813.24 12300.00	820222.74 90.00 359.49	9010.00	3535.78	-31.43	3535.92	0.00
381913.24 12400.00	820221.85 90.00 359.49	9010.00	3635.77	-32.32	3635.92	0.00
382013.23 12500.00	820220.96 90.00 359.49	9010.00	3735.77	-33.21	3735.92	0.00
		Pag	e 3			

	DVN RAGTN	L CATUN 14	FEDERAL 1H	P1 SVY.TXT		
382113.23 12600.00 382213.22	820220.07 90.00 359.49 820219.18	9010.00	3835.76	-34.10	3835.92	0.00
12700.00	90.00 359.49	9010.00	3935.76	-34.98	3935.92	0.00
382313.22 12800.00	820218.30 90.00 359.49	9010.00	4035.76	-35.87	4035.92	0.00
382413.22 12900.00	820217.41 90.00 359.49	9010.00	4135.75	-36.76	4135.92	0.00
382513.21 13000.00	820216.52 90.00 359.49	9010.00	4235.75	-37.65	4235.92	0.00
382613.21 13100.00 382713.20	820215.63 90.00 359.49 820214.74	9010.00	4335.74	-38.54	4335.92	0.00
13200.00	90.00 359.49	9010.00	4435.74	-39.43	4435.92	0.00
382813.20 13300.00 382913.20	820213.85 90.00 359.49 820212.96	9010.00	4535.74	-40.32	4535.92	0.00
13400.00 383013.19	90.00 359.49 820212.07	9010.00	4635.73	-41.21	4635.92	0.00
13500.00	90.00 359.49	9010.00	4735.73	-42.09	4735.92	0.00
383113.19 13600.00 383213.18	820211.19 90.00 359.49 820210.30	9010.00	4835.72	-42.98	4835.92	0.00
13700.00 383313.18	90.00 359.49 820209.41	9010.00	4935.72	-43.87	4935.92	0.00
13800.00 383413.18	90.00 359.49 820208.52	9010.00	5035.72	-44.76	5035.92	0.00
13900.00 383513.17	90.00 359.49 820207.63	9010.00	5135.71	-45.65	5135.92	0.00
14000.00 383613.17	90.00 359.49 820206.74	9010.00	5235.71	-46.54	5235.92	0.00
14100.00 383713.16	90.00 359.49 820205.85	9010.00	5335.70	-47.43	5335.92	0.00
14200.00	90.00 359.49	9010.00	5435.70	-48.32	5435.92	0.00
383813.16 14300.00	820204.96 90.00 359.49	9010.00	5535.70	-49.21	5535.92	0.00
383913.16 14400.00	820204.07 90.00 359.49	9010.00	5635.69	-50.09	5635.92	0.00
384013.15 14500.00	820203.19 90.00 359.49	9010.00	5735.69	-50.98	5735.92	0.00
384113.15 14600.00 384213.15	820202.30 90.00 359.49 820201.41	9010.00	5835.69	-51.87	5835.92	0.00
14700.00	90.00 359.49	9010.00	5935.68	-52.76	5935.92	0.00
384313.14 14704.41 384317.55	820200.52 90.00 359.49 820200.48	9010.00 PBHL	5940.09	-52.80	5940.32	0.00

Weatherford
WFT Plan Report - X & Y's

Company: Devon Energy
Time: 10:55:56 Page: 3
Field: Lea County, New Mexico (NAD 83)
Reference: Well: Ragin Cajun 14 Federal 1H
Site: Ragin Cajun 14 Federal 1H
Reference: SITE 3249.0
Well: Ragin Cajun 14 Federal 1H
Section (VS)

Reference: Well (0.00N,0.00E,359.49Azi)
Wellpath: 1
Survey Calculation

Method: Minimum Curvature Db: Sybase

Targets

, t

1 7

Мар <---- Latitude --<---Longitude +N/-S +E/-W Name Description TVD Northing sec Deg Min Easting Deg Min Sec ft ft ft Dip. Ďir. ft ft 9010.00 **PBHL** 5940.09 -52.80 384317.55

PBHL 9010.00 5940.09 -52.80 384317.55 820200.48 32 3 12.135 N 103 25 59.666 W

-Rectangle (5367x25)

Casing Points

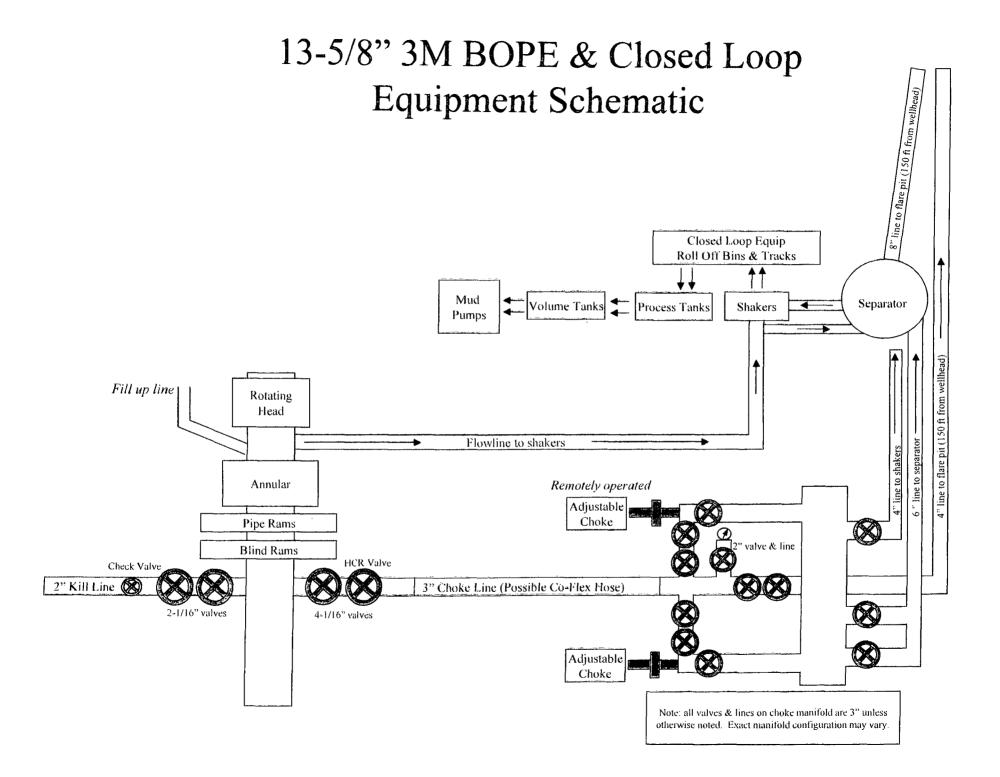
MD TVD Diameter Hole Size Name

Annotation

MD TVD ft ft 8437.04 8437.04 KOP 9337.04 9010.00 LP 14704.40 9010.00 PBHL Formations

MD TVD Formations Lithology
Dip Angle Dip Direction

Page 5



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP RAGIN CAJUN 14 FEDERAL 1H

Surface Location: 330 FSL & 330 FEL, Unit P, Sec 14 T26S R34E, LEA, NM Bottom Hole Location: 990 FSL & 330 FEL, Unit P, Sec 11 T26S R34E, LEA, NM

- 1) Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2) Wear ring will be properly installed in head.
- 3) Blowout preventer and all associated fittings will be in operable condition to withstand a minimum of 3000psi working pressure.
- 4) All fittings will be flanged.
- A full bore safety valve tested to a minimum 3000psi WP with proper thread connections will be available on the roatary 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 Beattle Corp

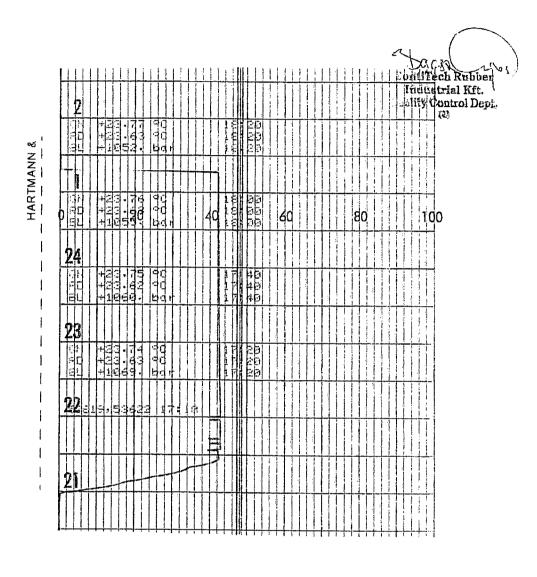
ContiTech Beattie Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com





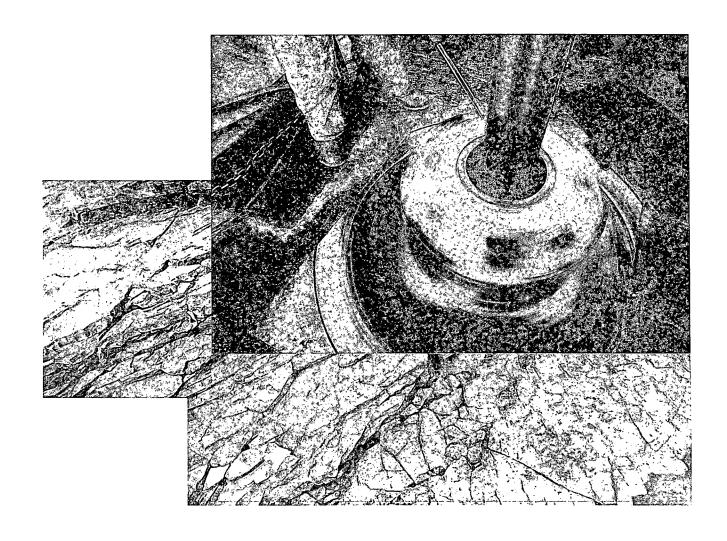
Fluid Technology Quality Document

	_							
QUALIT INSPECTION A	Y CONT		ATE	CERT. N	l°:	1713		
PURCHASER:	ContiTech B	eattie Co.		P.O. N°:	CONTRACTOR SERVICES	002808		
CONTITECH ORDER N°: 4	26127	HOSE TYPE:	3" ID	Cho	oke and k	d Kill Hose		
HOSE SERIAL N°:	NOMINAL / ACTU	JAL LENGTH:	-	10,67	m			
W.P. 68,96 MPa 100)00 psi	T.P. 103,4	MPa 1500	O psi	Duration:	60	min.	
ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min.								
COUPLINGS Type	→ 10 mm = 25 MPa COUPLINGS Type			Quality		Heat N°		
3" coupling with	5503	3 2029	Al	AISI 4130		N1590P		
4 1/16" Flange end			Al:	AISI 4130		27566		
INFOCHIP INSTALLED API Spec 16 C Temperature rate:"B" All metal parts are flawless Hose conform to NACE MR 01-75								
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO					TH THE TER	MS OF THE ORDER	₹	
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements. COUNTRY OF ORIGIN HUNGARY/EU								
Date: 25. August. 2008	Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. (1) Juni					





Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems March 2013

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

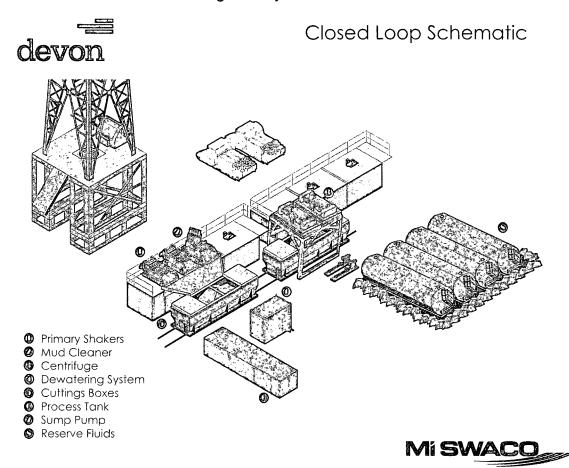
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

H&P Flex Rig Location Layout

