OCD-ARTESIA

		NMOCD A	A.L.			4	
*(Instructions on page 2) pitan Controlled Water Basin	R	ECEIVER ANG 31 20) \				-
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t					or agency	of the United	=
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	Is legal or equi	table title to those righ	its in the sul	bject lease which would APPRO\			YEA
Title FIELD MANAGER	Office	CARLSBA					
Approved by (Signature) Isl Doy Peterson		(Printed/Typed)			AUG	2620	211
Title Sr. Staff Engineering Technician							
25 Signature		(Printed/Typed) Stephanie A. Ysasa	ga		Date 02/1	5/2011	_
Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (Pithe location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)	Lands, the	4 Bond to cover t Item 20 above) 5 Operator certifi 6. Such other site BLM	he operation	ons unless covered by ar		`	; =
The following, completed in accordance with the requirements of Onshor	24. Attac		ttached to th	us form			-
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3413' GL	,	nate date work will sta 03/15/2011	rt*	23 Estimated duration 45 days	on		-
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fi SL: 1790' BHL: 360'	1	19 Proposed Depth 20. BLM/BIA Bond N TVD 8900' MD 13263' PH: 9225'					
property or lease line, ft (Also to nearest drig unit line, if any) 330'		c BHL: 280 ac	ao DIM	160		·	_
Approximately 12 miles southeast of Loco Ains, NWI. 15. Distance from proposed* location to nearest	16 No of a	cres in lease	17 Spacir	g Unit dedicated to this	well	INIVA	-
14. Distance m miles and direction from nearest town or post office* Approximately 12 miles southeast of Loco Hills, NM.				12 County or Parish Eddy		13 State	-
4. Location of Well (Report location clearly and in accordance with any At surface SWNW 1850' FNL & 330' FWL L At proposed prod zone SENE 1850' FNL & 330' FEL L	Lot E	ents *)		11. Sec , T R M. or E Sec 20-7	31k and Sur F19S-R31 1		
OKC, OK 73102	(405)-5	(include area code) 52-7802		10 Field and Pool, or Hackberry;	Bone Spri	ng, NW	_
Name of Operator Devon Energy Production Co., LP				9 API Well No	-39	354	-
Ib. Type of Well. Onl Well Gas Well Other	. Sır	gle ZoneMulti	ole Zone	8. Lease Name and Rigel 20 F		m 2H	-
la. Type of work.	ER			7 If Unit or CA Agre	eement, Nar	ne and No.	-
APPLICATION FOR PERMIT TO I		REENTER		6 If Indian, Allotee	or Tribe N	lame	-
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN.	NTERIOR			5 Lease Serial No. SL: NM05577	29 BHL:	NM63362	
Form 3160 -3 (February 2005)				OMB N	APPROVED o 1004-0137 March 31, 20)\$ i

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

DRILLING PROGRAM

Devon Energy Production Company, LP Rigel 20 Federal Com 2H

Surface Location: 1850' FNL & 330' FWL, Unit E, Sec 20 T19S R31E, Eddy, NM Bottom hole Location: 1850' FNL & 330' FEL, Unit H, Sec 20 T19S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Permian

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

a.	Quaternary Alluvium	100'	Fresh Water
b.	Rustler	335'	Barren
c.	Salado	625'	Barren
d.	Tansil Dolomite	2010'	Barren
e.	Yates	2150'	Oil
f.	Seven Rivers	2495'	Oil
g.	Capitan	2870'	Barren
h.	Queen	3250'	Barren
i.	Delaware	4370'	Oil
j.	Lower Brushy Canyon	6330'	Oil
k.	Bone Springs Lm	6545'	Oil
l.	1 st Bone Spring Ss	7815'	Oil
m.	2 nd Bone Spring Lime	8140'	Oil
n.	2 nd Bone Spring Ss	8680'	Oil
0.	2 nd Bone Spring Middle Ss	8835'	Oil
p.	2 nd Bone Spring Middle Ss Bas	e 8925'	Oil
q.	3 rd Bone Spring Lm	9100'	Oil
r.	PTD (Pilot Hole)	9225'	
s.	Total Depth TV	D 8900' MD 13263	,

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 400" and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 3300' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 ½" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. Casing Program:

<u> Hole Size</u>	<u>Hole</u>	OD Csg	<u>Casing</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
10	2 Interval		<u>Interval</u>			
17 1/2" (of	0'-400'-470		0'-400'	48#	STC	H-40
12 1/4"	400'-3300':397	'5 9 5/8"	0'-3300'	40#	LTC	J-55
8 3/4"	3,300°-8100	5 ½"	0'-8100'	17# .	LTC	P-110HC
8 3/4"	8100'- 13263'	5 ½"	8100-13263'	17#	BTC	P-110HC

Design Parameter Factors:

Casing Size	Collapse Design	Burst Design	Tension Design
	Factor	Factor	Factor
13 3/8"	4.11	9.24	16.77
9 5/8"	1.49	2.30	3.94
5 1/2" LTC	1.97	2.81	1.97
5 ½" BTC	1.77	2.53	6.22

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

An 8-3/4" pilot hole will be drilled to 9,225 ft and plugged back to KOP with a cement plug and openhole whipstock. The pilot hole will be cemented from the pilot hole TD to the KOP. The whipstock will be set at approx 8,315 ft (KOP).

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

a. 13 3/8" Conductor

Lead: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg. **Yield**: 1.75 cf/sk

Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg. **Yield**: 1.35 cf/sk.. **TOC** @ **surface**.

b. 9 5/8" Intermediate

Lead: 750 sacks (35:65) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg. **Yield**: 1.96 cf/sk

Tail: 300 sacks Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 14.8 ppg. **Yield**: 1.34 cf/sk. **TOC** @ **surface.**

c. 5 ½" Production

1st Stage

Lead: 900 sacks (35:65) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg. **Yield**: 2.00 cf/sk

Tail: 1,400 sacks (50:50) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg. **Yield**: 1.28 cf/sk

DV TOOL at ~4,500 ft

2nd Stage

Lead: 250 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg. **Yield**: 2.89 cf/sk

Tail: 150 sacks (60:40) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8

ppg. Yield: 1.37cf/sk. TOC @ 2,800 ft

8-3/4" Pilot Hole Plug

700 sacks Class H, 18.0 ppg, 0.9 cf/sk

Top of Plug 8,315 ft (KOP)

Bottom of Plug 9,225 ft (pilot hole TD)

TOC for All Strings:

Surface: 0'
Intermediate: 0'
Production: 2,800'

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

5. Pressure Control Equipment:

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

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

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

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.

6. Proposed Mud Circulation System

<u>Depth</u>	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
0'-400 470	8.4-9.0	30-34	NC	Fresh Water
400-3300,3975	9.8-10.0	28-32	NC	Brine
3300'–13263'	8.6-9.0	28-32	NC-12	Fresh Water

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

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

8. Logging, Coring, and Testing Program: See COA

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned.
 - iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Potential Hazards:

a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3800 psi and Estimated BHT 140°. No H2S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spuddate 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.

Australia celo arbuco entro

garen by State of State of



Drilling Services

Proposal



RIGEL 20 FED COM #2H

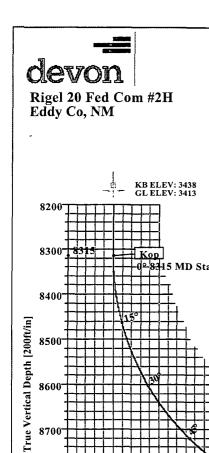
EDDY COUNTY, NM

WELL FILE: PLAN 1

JANUARY 25, 2011

Weatherford International, Ltd.

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

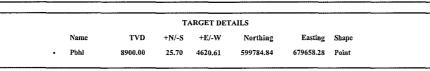


8800

	SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target			
1	0.00	0.00	89.68	0.00	0.00	0.00	0.00	0.00	0.00				
2	8315.04	0.00	89.68	8315.04	0.00	0.00	0.00	0.00	0.00				
3	9213.34	89.83	89.68	8888.00	3.18	571.25	10.00	89.68	571.26				
4	13262.78	89.83	89.68	8900.00	25.70	4620.61	0.00	0.00	4620.68	Pbhl			

	SECTION DETAILS												
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target			
1	0.00	0.00	89.68	0.00	0.00	0.00	0.00	0.00	0.00				
2	8315.04	0.00	89.68	8315.04	0.00	0.00	0.00	0.00	0.00				
3	9213.34	89.83	89.68	8888.00	3.18	571.25	10.00	89.68	571.26				
4	13262.78	89.83	89.68	8900.00	25.70	4620.61	0.00	0.00	4620.68	Pbbl			

	WELL DETAIL	ĹS		
orthing	Easting	Latitude	Longitude	Slot
759.14	675037.67	32°38'52.911N	103°53'56.217W	N/A



FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983 Ellipsoid: GRS 1980 Zone: New Mexico, Eastern Zone

Magnetic Model: IGRF2010

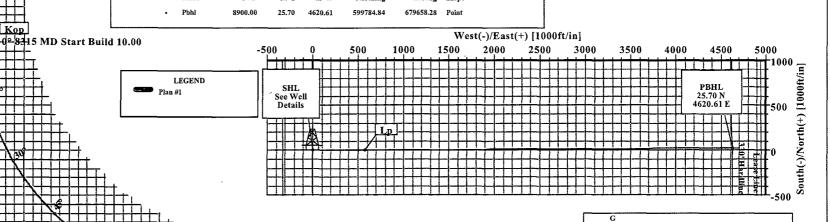
System Datum: Mean Sea Level Local North: Grid North

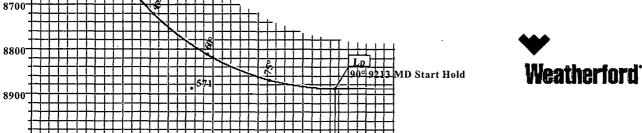
SITE DETAILS

Rigel 20 Fed Com #2H

Site Centre Northing: 599759.14 Easting: 675037.67

Ground Level: 3413.00 Positional Uncertainty: 0.00 Convergence: 0.23





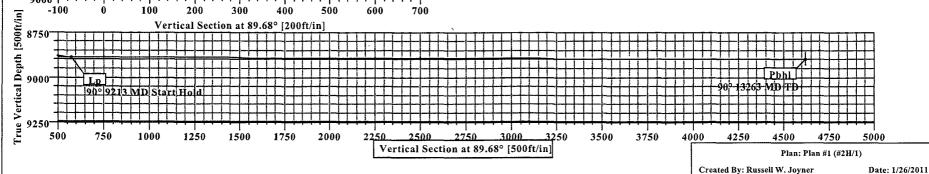
#2H



Azimuths to Grid North True North: -0.23° Magnetic North: 7.52°

Magnetic Field Strength: 48845nT Dip Angle: 60.52° Date: 8/15/2011 Model: IGRF2010

Total Correction to Grid North: 7.529





Weatherford International Ltd. WFT Plan Report - X & Y's



Company: Devon Energy

Field: Site:

Well: Wellpath:

Eddy Co., NM (NAD 83) Rigel 20 Fed Com #2H

Yes

Date: 1/26/2011

Co-ordinate(NE) Reference: Vertical (TVD) Reference:

Section (VS) Reference: **Survey Calculation Method:**

Minimum Curvature

Well: #2H, Grid North SITE 3438.0 Well (0.00N,0.00E,89.68Azi)

Db: Sybase

Plan #1 Plan:

Date Composed: Version:

Tied-to:

From Surface

1/25/2011

Time: 08:05:19

Field:

Principal:

Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983

Geo Datum: GRS 1980 Sys Datum: Mean Sea Level Map Zone: **Coordinate System:** New Mexico, Eastern Zone

Well Centre IGRF2010

Site:

Rigel 20 Fed Com #2H

Site Position: From:

Мар Position Uncertainty: Ground Level:

Northing: Easting:

599759.14 ft 675037.67 ft

Latitude: Longitude:

38 52.911 N 56.217 W 103 53

North Reference:

Grid

Grid Convergence:

Geomagnetic Model:

0.23 deg

Well: Well Position:

#2H

+N/-S+E/-W

0.00 ft Northing: 0.00 ft Easting:

599759.14 ft 675037.67 ft Latitude: Longitude:

Slot Name:

32 38 52.911 N

Position Uncertainty:

0.00 ft

48845 nT

0.00 ft

3413.00 ft

Drilled From:

103 53 56.217 W

Surface

Wellpath: 1

Field Strength:

Vertical Section:

Current Datum: Magnetic Data:

8/15/2011

Depth From (TVD)

0.00

Height 3438.00 ft

+N/-Sft 0.00

Tie-on Depth: Above System Datum:

Declination:

Mag Dip Angle: +E/-W ft

0.00 ft Mean Sea Level 7.75 deg 60.52 deg

Direction deg

89.68

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W	DLS deg/100f	Build t deg/100f	Turn t deg/100ft	TFO deg	Target
0.00	0 00	89.68	0.00	0.00	0.00	0 00	0.00	0.00	0.00	
315.04	0.00	89 68	8315.04	0.00	0 00	0.00	0.00	0.00	0.00	
9213 34	89.83	89 68	8888.00	3 18	571.25	10.00	10 00	0.00	89.68	
262 78	89 83	89.68	8900.00	25 70	4620.61	0.00	0.00	0.00	0.00	Pbhl

0.00

Survey

	MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft		Comment
	8300.00	0.00	89.68	8300.00	0.00	0.00	0.00	0.00	599759.14	675037.67		
	8315.04	0.00	89.68	8315.04	0.00	0.00	0.00	0.00	599759.14	675037.67	Kop	
ļ	8400.00	8.50	89.68	8399 69	0.03	6.29	6.29	10 00	599759.17	675043.96		1
	8500 00	18.50	89.68	8496 80	0.16	29.60	29.60	10.00	599759.30	675067.27		
	8600.00	28.50	89 68	8588.40	0.39	69.41	69.41	10.00	599759.53	675107.08		,
	8700.00	38.50	89.68	8671.68	0.69	124.53	124.53	10.00	599759.83	675162.20		
	00.0088	48.50	89.68	8744.13	1.07	193.27	193.27	10.00	599760.21	675230.94		1
	8900.00	58.50	89.68	8803.55	1.52	273.55	273.55	10.00	599760.66	675311.22		
	9000.00	68.50	89.68	8848.12	2.02	362.93	362.93	10.00	599761.16	675400 60		
	9100.00	78.50	89.68	8876.49	2.55	458.68	458.69	10 00	599761.69	675496.35		
	9200.00	88.50	89.68	8887.80	3.10	557.91	557.92	10.00	599762.24	675595.58		
	9213.34	89.83	89 68	8888.00	3.18	571.25	571 26	10.00	599762.32	675608.92	Lp	
ł	9300.00	89.83	89.68	8888 25	3 66	657.91	657 92	0.00	599762 80	675695.58	•	
	9400.00	89.83	89.68	8888.55	4 22	757.91	757.92	0.00	599763.36	675795.58		
	9500.00	89.83	89.68	8888.85	4.77	857.90	857.92	0.00	599763.91	675895.57		
	9600.00	89.83	89.68	8889.14	5.33	957.90	957.92	0.00	599764.47	675995.57		
	9700 00	89.83	89.68	8889.44	5.88	1057.90	1057.92	0.00	599765.02	676095.57		



Weatherford International Ltd. WFT Plan Report - X & Y's



Company: Devon Energy Field: Eddy Co., NM (NAD 83) Site: Rigel 20 Fed Com #2H

Well: #2H Wellpath:

Date: 1/26/2011

Time: 08:05:19 Co-ordinate(NE) Reference: Vertical (TVD) Reference:

Well: #2H, Grid North SITE 3438.0

Section (VS) Reference: Survey Calculation Method:

Well (0.00N,0.00E,89.68Azi)
Minimum Curvature

Db: Sybase

Surv	ey
------	----

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft ,	Comm
9800 00	89.83	89.68	8889.73	6.44	1157.90	1157.92	0.00	599765 58	676195.57	
9900.00	89.83	89.68	8890.03	7.00	1257.90	1257.91	0.00	599766.14	676295.57	
10000.00	89.83	89.68	8890.33	7.55	1357.89	1357.91	0.00	599766.69	676395.56	
10100.00	89 83	89.68	8890.62	8.11	1457.89	1457.91	0.00	599767.25	676495.56	
10200.00	89.83	89.68	8890.92	8.67	1557.89	1557.91	0.00	599767.81	676595.56	
10300 00	89.83	89 68	8891.22	9.22	1657.89	1657.91	0 00	599768.36	676695.56	
10400.00	89.83	89 68	8891.51	9.78	1757 89	1757.91	0.00	599768.92	676795 56	
10500.00	89.83	89.68	8891.81	10.33	1857.88	1857.91	0.00	599769 47	676895.55	
10600.00	89.83	89.68	8892.11	10.89	1957.88	1957.91	0.00	599770 03	676995.55	
10700.00	89 83	89.68	8892.40	11.45	2057.88	2057.91	0.00	599770.59	677095.55	
10800.00	89 83	89 68	8892.70	12.00	2157.88	2157.91	0.00	599771.14	677195.55	
10900.00	89.83	89.68	8893.00	12.56	2257 88	2257.91	0 00	599771.70	677295.55	
11000.00	89.83	89.68	8893.29	13.11	2357.87	2357.91	0.00	599772.25	677395.54	
11100.00	89.83	89.68	8893.59	13.67	2457.87	2457.91	0.00	599772.81	677495.54	
11200.00	89.83	89.68	8893.88	14.23	2557.87	2557.91	0.00	599773.37	677595.54	
11300.00	89.83	89.68	8894.18		2657.87	2657.91	0.00	599773.92	677695.54	
11400.00				14.78				599774.48		
11500.00	89.83 89.83	89.68	8894.48	15 34	2757.87	2757.91	0.00 0.00	599775 04	677795 54 677895.53	
11500 00	09.83	89.68	8894.77	15 90	2857.86	2857.91	0.00	599775 04	677695.53	
11600 00	89.83	89.68	8895.07	16.45	2957.86	2957.91	0.00	599775.59	677995.53	
11700.00	89.83	89.68	8895.37	17.01	3057.86	3057.91	0 00	599776.15	678095.53	
11800.00	89.83	89.68	8895.66	17.56	3157.86	3157.91	0 00	599776.70	678195 53	
11900.00	89 83	89.68	8895.96	18.12	3257.86	3257.91	0 00	599777.26	678295.53	
12000.00	89 83	89.68	8896.26	18 68	3357.85	3357.91	0.00	599777.82	678395.52	
12100.00	89.83	89 68	8896.55	19.23	3457.85	3457.91	0.00	599778.37	678495.52	
12200 00	89.83	89.68	8896.85	19.79	3557.85	3557.90	0.00	599778.93	678595.52	
12300.00	89.83	89.68	8897.15	20.35	3657.85	3657.90	0.00	599779.49	678695.52	
12400.00	89.83	89.68	8897.44	20.90	3757.85	3757.90	0.00	599780.04	678795.52	
12500.00	89 83	89.68	8897.74	21 46	3857.84	3857.90	0.00	599780.60	678895.51	
40000.00	00.00	00.00	0000.04	00.04	0057.04	0057.00	0.00	E00704.45	070005 54	
12600.00	89.83	89.68	8898.04	22.01	3957 84	3957.90	0.00	599781.15	678995 51	
12700.00	89.83	89.68	8898.33	22.57	4057.84	4057.90	0.00	599781.71	679095.51	
12800.00	89.83	89.68	8898.63	23.13	4157.84	4157.90	0.00	599782 27	679195.51	
12900 00	89.83	89.68	8898.92	23.68	4257.84	4257.90	0.00	599782.82	679295.51	
13000.00	89.83	89.68	8899.22	24.24	4357.83	4357.90	0.00	599783.38	679395.50	
13100.00		89.68	8899.52	24.79	4457.83	4457.90	0.00	599783.93	679495.50	
13200.00	89.83	89.68	8899.81	25.35	4557.83	4557.90	0.00	599784.49	679595.50	
13262 78	89 83	89 68	8900.00	25.70	4620.61	4620.68	0.00	599784.84	679658.28	Pbhl

Targets

Name	Descripti Dip.	on Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	< Latitude> Deg Min Sec	< Longitude> Deg Min Sec
Pbhl			8900.00	25.70	4620.61	599784.84	679658.28	32 38 52.975 N	103 53 2.173 W

Casing Points

	MD	TVD	Diameter	Hole Size	Name			
į								



Weatherford International Ltd. WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Rigel 20 Fed Com #2H

Well: Wellpath: Date: 1/26/2011 Co-ordinate(NE) Reference: Vertical (TVD) Reference:

Section (VS) Reference: Survey Calculation Method:

Time: 08.05.19 Well: #2H, Grid North SITE 3438.0

Page:

Annotation

ft	ft	
8315.04	8315.04	Kop
9213.34	8888.00	Lp
13262.78	8900.00	Pbhl

Formations

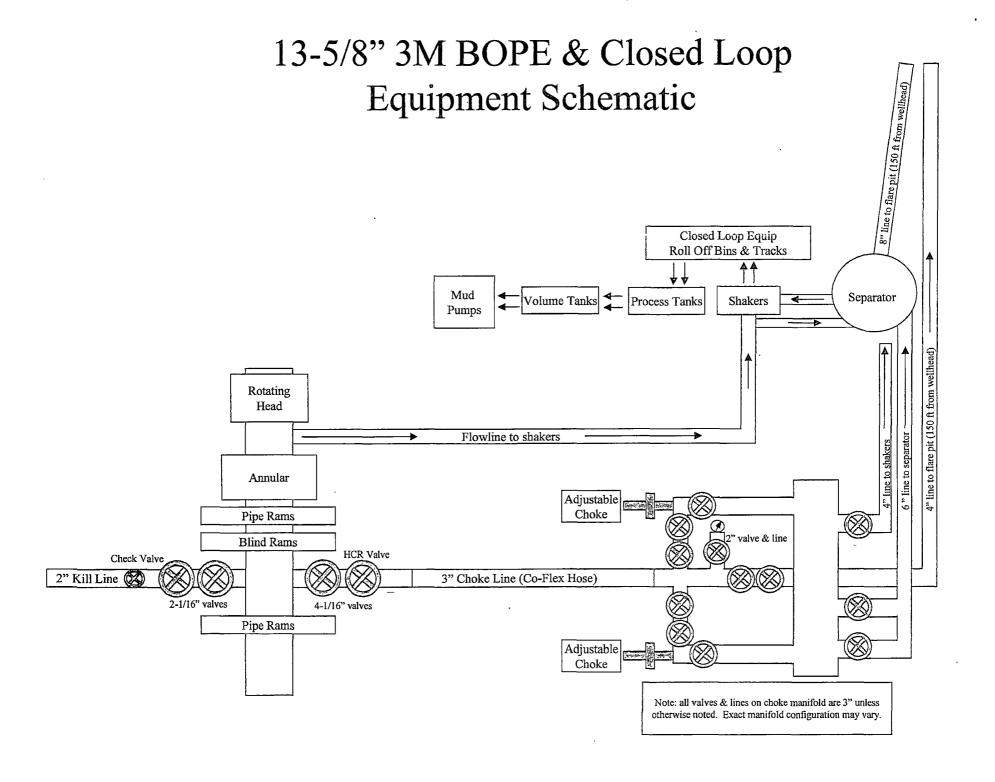
MD	TVD	Formations	Lithology	Dip Angle Dip Direction



Weatherford Drilling Services

GeoDec v5.03

Report Date:							
Job Number:	January	25, 2011					
Customer:							
Vell Name: Rigel 20 Fed Com #2H							
PI Number:							
Rig Name: Location:	Eddy Co	Eddy Co NM (NAD 92)					
Block:	Eddy Co., NM (NAD 83) RWJ						
Engineer:							
US State Plane 19	83		Geodetic Latitude / Longit	tude			
System: New Mexi	ico Eastern 2	Zone	System: Latitude / Longitu	ude			
Projection: Transv	erse Mercato	or/Gauss Kruger	Projection: Geodetic Latit	ude and Longitude			
Datum: North American Datum 1983 Datum: North Ameri				can Datum 1983			
Ellipsoid: GRS 1980 Ellipsoid: GRS 1980							
North/South 599759.140 USFT Latitude 32.6480340 DEG							
East/West 675037			Longitude -103.8989446	DEG			
Grid Convergence	: .23°		Longitude -103.8989446	DEG			
	: .23°		Longitude -103.8989446	DEG			
Grid Convergence	: .23° +7.52°	Elevation	Longitude -103.8989446 n = 0.0 Meters	DEG			
Grid Convergence Total Correction: - Geodetic Location	: .23° +7.52°			DEG			
Grid Convergence Total Correction: - Geodetic Location	: .23° +7.52° WGS84 32.64803°	N 32°	n= 0.0 Meters	DEG			
Grid Convergence Total Correction: - Geodetic Location Latitude = 3 Longitude = 10	: .23° +7.52° WGS84 32.64803°)3.89894°	N 32°	n= 0.0 Meters 38 min 52.923 sec	DEG			
Grid Convergence Total Correction: - Geodetic Location Latitude = 3 Longitude = 10 Magnetic Declinati	: .23° +7.52° WGS84 32.64803°)3.89894°	N 32° :	n= 0.0 Meters 38 min 52.923 sec 53 min 56.201 sec	DEG 6570			
Grid Convergence Total Correction: - Geodetic Location Latitude = 3 Longitude = 10 Magnetic Declinati	: .23° +7.52° WGS84 32.64803° 33.89894° on =	N 32° : W 103° :	n = 0.0 Meters 38 min 52.923 sec 53 min 56.201 sec [True North Offset]				
Grid Convergence Total Correction: - Geodetic Location Latitude = 3 Longitude = 10 Magnetic Declinati Local Gravity = Local Field Strengt	: .23° +7.52° WGS84 32.64803° 33.89894° on =	N 32° 103° 7.75° .9988 g	n = 0.0 Meters 38 min 52.923 sec 53 min 56.201 sec [True North Offset] CheckSum =	6570			
Grid Convergence Total Correction: - Geodetic Location Latitude = 3 Longitude = 10 Magnetic Declinati Local Gravity =	: .23° +7.52° WGS84 32.64803°)3.89894° on =	N 32° 103° 7.75° .9988 g 48841 nT	n = 0.0 Meters 38 min 52.923 sec 53 min 56.201 sec [True North Offset] CheckSum = Magnetic Vector X =	6570 23817 nT			

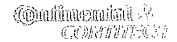


Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP Rigel 20 Federal Com 2H

Surface Location: 1850' FNL & 330' FWL, Unit E, Sec 20 T19S R31E, Eddy, NM Bottom hole Location: 1850' FNL & 330' FEL, Unit H, Sec 20 T19S R31E, Eddy, NM

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Hydrostatic Test Certificate

Certificate Number: 4520	PBC No:	10321		Customer Name & Address
	1			HELMERICH & PAYNE INT'L DRILLING CO
Customer Purchase Order No:	RIG 300			1437 SOUTH BOULDER
·				TULSA, OK 74119
Project:				:
Test Centre Address	Accept	ed by ContiTech	Beattle Inspection	Accepted by Client Inspection
ContiTech Beattie Corp.		Josh Sims		
11535 Brittmoore Park Drive	Signed:		25	
Houston, TX 77041		A STATE OF THE STA		
USA	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 Beattle Corporation.

These goods were made in the United States of America.

Item Part No. Description Quty Number Length (m) Press Press (minutes)
The Court of the C
Hitem 2 H. A. Part No. 2008 IN 17 PAGE OF THE SAME AND ESTIBILITY OF THE PART
Table Tab
A CHAIN CONTRACT CONT

3" ID 10K Choke & Kill Hose x 35ft OAL

Epd.A: 4.1/16".10Kosi APLSpec.6A.Type.6BX.Elange

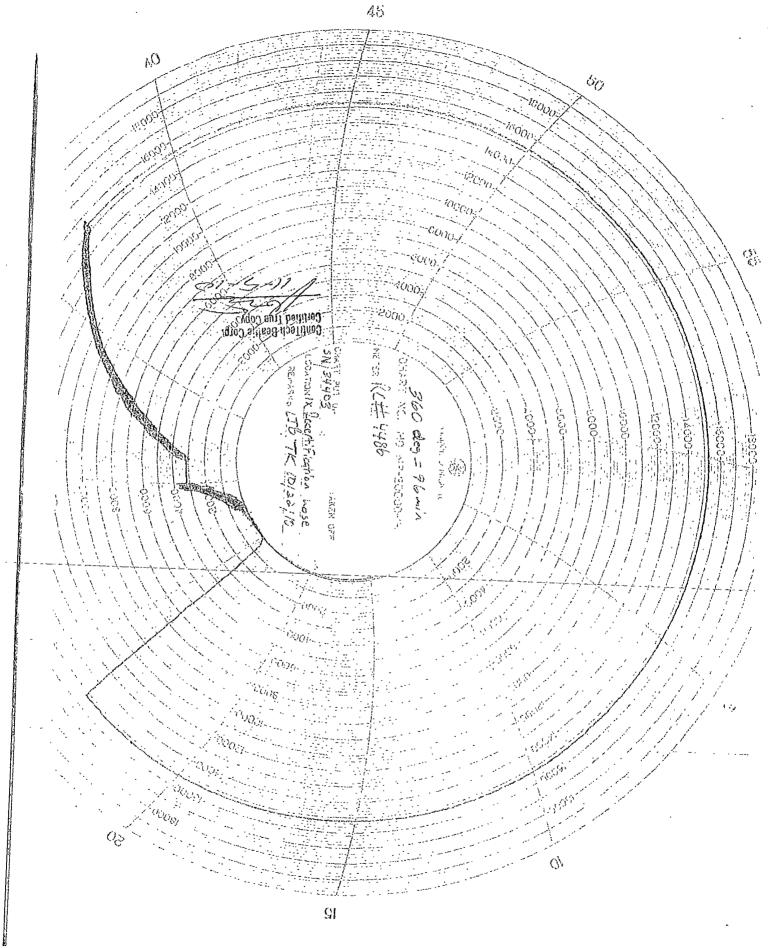
49106

10 kpsi 15 kpsi

60

End A: 4.1/46" 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







ContiTech Beattie Corp. Website: www.contitechbeattie.com

Monday, June 14, 2010

RE:

Drilling & Production Hoses Lifting & Safety Equipment

To Heimerich & 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 Phone: +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com

