

Form 3160-3
(March 2012)

RECEIVED

OCT 11 2012

SECRETARY'S POTASH

OCD Artesia

FORM APPROVED
OMB No 1004-0137
Expires October 31, 2014

NMOCD ARTESIA

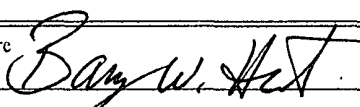
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-97133
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name TCS 10/15/2012
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, L.P. <6137>		7. If Unit or CA Agreement, Name and No.
3a. Address 333 W. SHERIDAN OKLAHOMA CITY, OK. 73102	3b. Phone No. (include area code) (405) -552-4524	8. Lease Name and Well No. BLACK JACK 1 FED 6H <36734>
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 116 FSL & 1780 FEL At proposed prod. zone 330 FNL & 1980 FEL		9. API Well No. 30-015-40792
14. Distance in miles and direction from nearest town or post office* 15 MILES SOUTHEAST OF MALAGA, NM		10. Field and Pool, or Exploratory SAND DUNES; DELAWARE SOUTH <538H>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 116'	16. No. of acres in lease 640	11. Sec., T. R. M. or Blk. and Survey or Area SECTION 1, T. 24 S., R. 30 E.
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1326'	19. Proposed Depth MD: 12552 TVD: 9100	12. County or Parish EDDY
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3480.5' GL	22. Approximate date work will start*	13. State NM
24. Attachments		17. Spacing Unit dedicated to this well 159.96
		20. BLM/BIA Bond No. on file NMB-000801 CO-1104
		23. Estimated duration 30 DAYS

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

25. Signature 	Name (Printed/Typed) BARRY W. HUNT	Date 7/20/12
Title PERMIT AGENT FOR DEVON ENERGY PRODUCTION COMPANY, L.P.		
Approved by (Signature) /s/ Jesse J. Juen	Name (Printed/Typed)	Date OCT 4 2012
Title STATE DIRECTOR	Office NM STATE 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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

ATTACHED FOR
CONDITIONS OF APPROVAL

DISTRICT I
1625 N French Dr., Hobbs, NM 88240
Phone: (575) 791-6161 Fax: (575) 791-0720
DISTRICT II
811 S First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Hondo Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6178
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40792	Pool Code 53818	Pool Name SAND DUNES; DELAWARE SOUTH
Property Code 36734	Property Name BLACK JACK 1 FED	Well Number 6H
OGRID No 6137	Operator Name DEVON ENERGY PRODUCTION COMPANY, LP.	Elevation 3031.5'

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	1	24 S	30 E		116	SOUTH	1780	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	1	24 S	30 E		330	NORTH	1980	EAST	EDDY

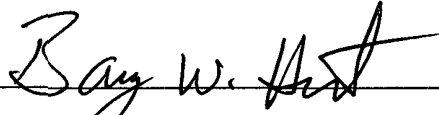
Dedicated Acres	Joint or Infill	Consolidated Code	Order No
159.96			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NW COR SEC 1 NMSP-E (NAD 83) Y = 456540.4' N X = 692932.3' E LAT. = N32° 54' 16.50" LONG. = W104° 36' 34.67"	BLACK JACK 1 FED - 6H BHL NMSP-E (NAD 83) Y = 456235.8' N X = 696302.5' E LAT. = N32° 54' 49.84" LONG. = W104° 36' 38.34"	330' 1980' NE COR SEC 1 NMSP-E (NAD 83) Y = 456382.4' N X = 698281.9' E LAT. = N32° 55' 09.43" LONG. = W104° 36' 36.68"	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Barry W. Hunt</i> Date: 8/23/12 Print Name: Barry W. Hunt E-mail Address:	
				SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JUNE 6, 2012 Date of Survey Signature and Seal of Professional Surveyor:
SW COR SEC 1 NMSP-E (NAD 83) Y = 451267.9' N X = 692950.1' E LAT. = N32° 54' 16.53" LONG. = W104° 37' 36.51"	BLACK JACK 1 FED - 6H SHL NMSP-E (NAD 83) Y = 451372.7' N X = 696521.6' E LAT. = N32° 54' 51.87" LONG. = W104° 37' 35.40"	116' 1780' SE COR SEC 1 NMSP-E (NAD 83) Y = 451297.4' N X = 698301.5' E LAT. = N32° 55' 09.48" LONG. = W104° 37' 36.34"		JAMES E. TOMPKINS NEW MEXICO 14729 REGISTERED PROFESSIONAL LAND SURVEYOR Signature: <i>James E. Tompkins</i> Job No.: WTC48539 JAMES E. TOMPKINS 14729 Certificate Number

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 20th day of July 2012.

Signed:  _____

Printed Name: Barry Hunt

Position: Agent for Devon Energy Production, LLC.

Address: 1403 Springs Farm Place, Carlsbad, NM 88220

Telephone: (575) 361-4078

E-mail: specialtpermitting@gmail.com

Field Representative: Don Mayberry

Address: P. O. Box 250, Artesia, NM 88211-0250

Telephone: Office: (575) 748-0164, Cell: (575) 748-5235



Devon Energy Corporation
20 North Broadway
Oklahoma City, OK 73102-8260

405 235 3611 Phone
www.devonenergy.com

June 5, 2012

To Whom It May Concern:

Mr. Barry Hunt is contracted by Devon Energy, L.P. to sign as their agent for APDs and Right of Ways in the state of New Mexico.

If you have any questions, please contact me at my office at (405) 228-8379.

Sincerely,


Victoria Sanchez

Supervisor, Regulatory Compliance
Mid-Continent Division
Devon Energy, L.P.

DEVON ENERGY PRODUCTION, L. P.
DRILLING PLAN

Black Jack 1 Fed 6H
SHL: 116 FSL & 1780 FEL
BHL: 330 FNL & 1980 FEL
Section 1-24S-30E
Eddy County, NM

The elevation of the unprepared ground is 3480.5' feet above sea level.

The geologic name of the surface formation is Quaternary - Alluvium.

A rotary rig will be utilized to drill the well.

Proposed total depth is: MD: 12552'. TVD: 9100'.

Estimated tops of important geologic markers:

Quaternary – Alluvium	Surface*
Rustler	485'
Salado	848'
Top of Salt	923'
Base Salt	3873'
Delaware	4095'
Bell Canyon Sand	4130'
Cherry Canyon Sand	5026'
Brushy Canyon Sand	6341'
TVD	9100' (145 degree F)

*Water anticipated at 200 feet.

Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Delaware	Oil (1801 psi)
Bell Canyon	Oil (1817 psi)
Cherry Canyon	Oil (1817 psi)
Brushy Canyon	Oil (2790 psi)
TVD	Oil BHP (4004 psi)

BLACK JACK 1 FED 6H – APD DRILLING PLAN
SKS 6.27.12

Casing Program (All new casing)

See
COA

<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 – 570 630	13-3/8"	0 – 570	48#	STC	H-40
12-1/4"	570 – 4,000 4150	9-5/8"	0 – 4,000	40#	LTC	J-55
8-3/4"	4,000 – 7,257	5-1/2"	0 – 7,257	17#	LTC	P-110
8-3/4"	7,257 – 12,552	5-1/2"	7,257 – 12,552	17#	BTC	P-110

MAX TVD: 9,100 FT

Design Factors

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8"	2.9	6.5	19.8
9-5/8" 40# J-55 LTC	1.2	1.9	3.9
5-1/2" 17# P-110 LTC	2.2	3.1	2.1
5-1/2" 17# P-110 BTC	2.0	3.1	2.1

NOTE REGARDING COLLAPSE DESIGN FACTOR FOR INTERMEDIATE CASING: The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. The pore pressure is estimated to be 9.0 ppg for this calculation. This results in a collapse design factor of 1.2 for the 9-5/8" 40# J-55 LTC casing at a depth of 4,000 ft. While running the intermediate casing, the casing string will never be completely evacuated. There is no potential for the intermediate casing to be used as a production string.

Mud Program

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 570 630	8.4 – 9.0	30 – 34	N/C	FW
570 – 4,000 4150	9.8 – 10.0	28 – 32	N/C	Brine
4,000 – 12,552	8.6 – 9.0	28 – 32	N/C	FW

Pressure Control Equipment

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 as per Onshore Order No 2. 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.

Cementing Program (cement volumes based on at least 25% excess)

13-3/8" Surface

Mix and pump 615 sks

HalCem - C

lbm/gal

2 %

Calcium Chloride - Flake (Accelerator)

0.125 lbm/sk

Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 14.80

Slurry Yield: 1.35 ft³/sk

Total Mixing Fluid: 6.37 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 570 ft

Volume: 147.32 bbl

Calculated Sacks: 614.53 sks

Proposed Sacks: 615 sks

9-5/8" Intermediate

Lead with 900 sks

EconoCem - HLC

lbm/gal

5 %

Salt (Salt)

0.125 lbm/sk

Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 12.90

Slurry Yield: 1.85 ft³/sk

Total Mixing Fluid: 9.81 Gal/sk

Top of Fluid: 0 ft

Calculated Fill: 3200 ft

Volume: 294.95 bbl

Calculated Sacks: 897.10 sks

Proposed Sacks: 900 sks

Tail-in with 345 sks

HalCem - C

lbm/gal

0.125 lbm/sk

Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 14.80

Slurry Yield: 1.33 ft³/sk

Total Mixing Fluid: 6.32 Gal/sk

Top of Fluid: 3200 ft

Calculated Fill: 800 ft

Volume: 81.13 bbl

Calculated Sacks: 343.77 sks

Proposed Sacks: 345 sks

5-1/2" Production

Stage 1

Lead with 365 sks

EconoCem - HLH

lbm/gal

0.2 %

HR-601 (Retarder)

Fluid Weight 12.50

Slurry Yield: 1.95 ft³/sk

Total Mixing Fluid: 10.81 Gal/sk

Top of Fluid: 5500 ft

Calculated Fill: 1857 ft

Volume: 125.32 bbl

Calculated Sacks: 360.64 sks

Proposed Sacks: 365 sks

Tail-in with 1350 sks

VersaCem - H

lbm/gal

Fluid Weight 14.50

0.5 %	Halad®-344 (Low Fluid Loss Control)
0.4 %	CFR-3 (Dispersant)
1 lbm/sk	Salt (Salt)
0.1 %	HR-601 (Retarder)

Slurry Yield:	1.22 ft ³ /sk
Total Mixing Fluid:	5.37 Gal/sk
Top of Fluid:	7357 ft
Calculated Fill:	5195 ft
Volume:	293.08 bbl
Calculated Sacks:	1349.89 sks
Proposed Sacks:	1350 sks

DV TOOL at 5,500 ft

Stage 2

Lead with 435 sks

ExtendaCem - C

lbm/gal

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 11.40

Slurry Yield:	2.87 ft ³ /sk
Total Mixing Fluid:	17.69 Gal/sk
Top of Fluid:	0 ft
Calculated Fill:	4500 ft
Volume:	219.51 bbl
Calculated Sacks:	430.17 sks
Proposed Sacks:	435 sks

Tail-in with 290 sks

HalCem - C

lbm/gal

0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)

Fluid Weight 14.80

Slurry Yield:	1.33 ft ³ /sk
Total Mixing Fluid:	6.32 Gal/sk
Top of Fluid:	4500 ft
Calculated Fill:	1000 ft
Volume:	67.48 bbl
Calculated Sacks:	285.96 sks
Proposed Sacks:	290 sks

TOC @ Surface

TOC for All Strings:

Surface:	0
Intermediate:	0
Production:	0

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

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.

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:
 1. Total depth to intermediate casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 2. Total Depth to Surface Compensated Neutron with Gamma Ray.
 3. No coring program is planned.
 4. 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.

POTENTIAL HAZARDS:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area; therefore, no H₂S is anticipated. 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 4004 and estimated BHT 145.**

ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. Road and location construction will begin after BLM has approved the APD. Anticipated spud date will be soon after BLM approval and as soon as a rig is 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 flowlines in order to place well on production.



Weatherford[®]

Drilling Services

Proposal



devon

BLACK JACK 1 FED #6H

EDDY COUNTY, NM

WELL FILE: PLAN 1

JUNE 18, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Black Jack 1 Fed #6H
Eddy Co., New Mexico

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	357.42	0.00	0.00	0.00	0.00	0.00	0.00
2	7357.04	0.00	357.42	7357.04	0.00	0.00	0.00	0.00	0.00
3	8257.04	90.00	357.42	7930.00	572.38	-25.79	10.00	357.42	572.96
4	12552.12	90.00	357.42	7930.00	4863.10	-219.10	0.00	0.00	4868.03 PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BJ 1 Fed #6H	0.00	0.00	451372.70	696521.60	32°14'23.640N	103°49'53.098W

Slot
N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL	7930.00	4863.10	-219.10	456235.80	696302.50	32°15'11.774N

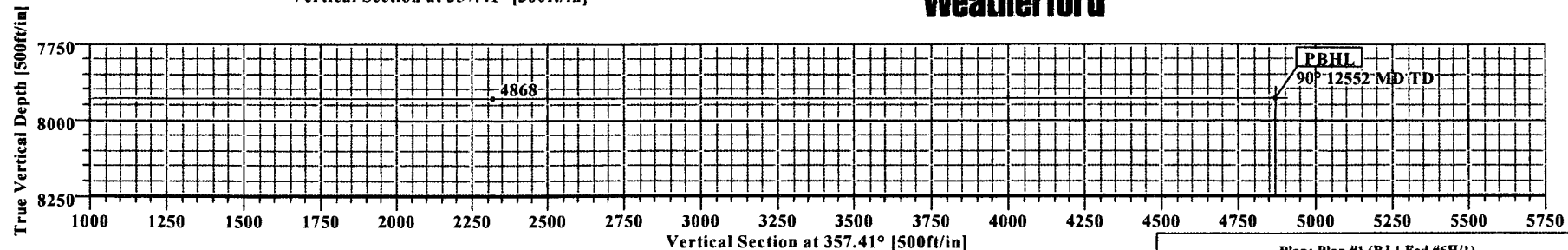
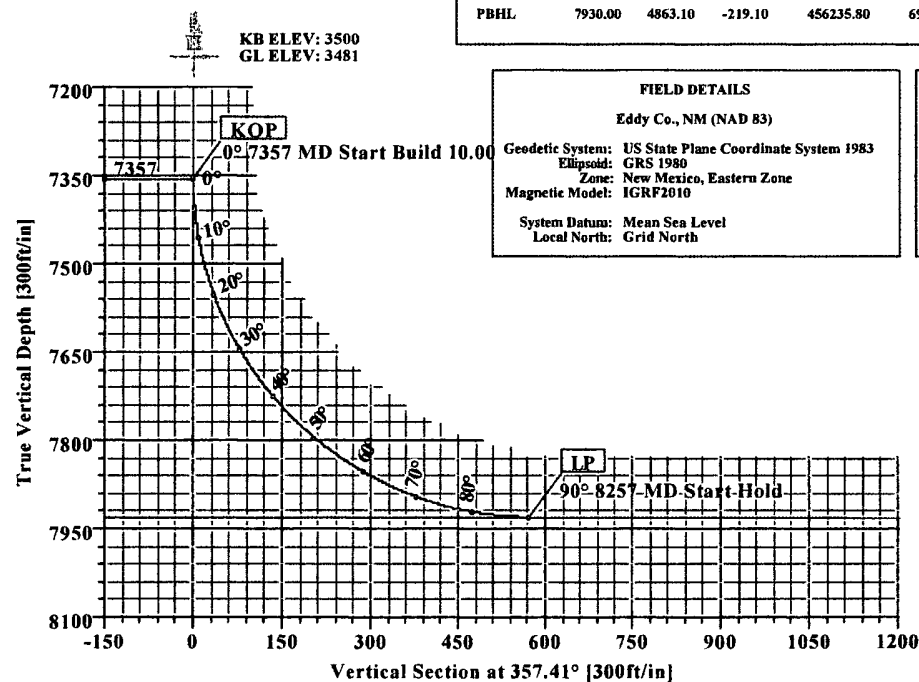
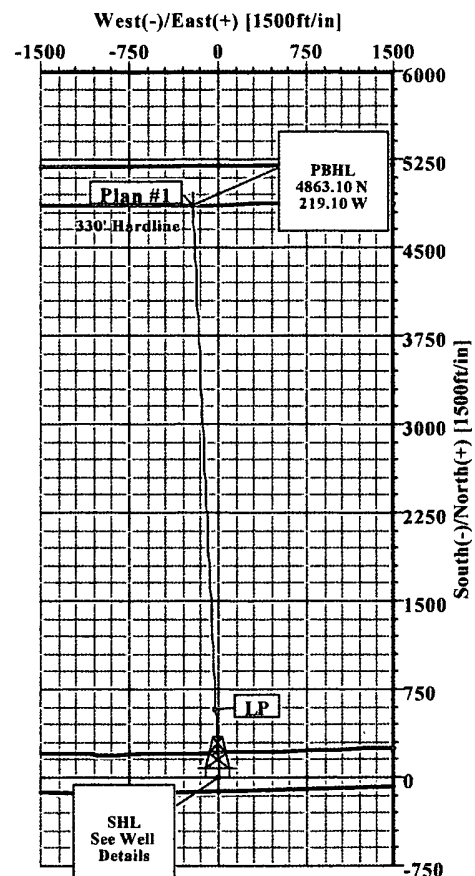
Longitude	Shape
103°49'55.385W	Point

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	
Black Jack 1 Fed #6H	
Site Centre Northing:	451372.70
Easting:	696521.60
Ground Level:	3481.00
Positional Uncertainty:	0.00
Convergence:	0.27

	Azimuths to Grid North True North: -0.27° Magnetic North: 7.28° Magnetic Field Strength: 48489nT Dip Angle: 60.12° Date: 10/15/2012 Model: IGRF2010 Total Correction to Grid North: 7.28°
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LEGEND	
	Plan #1





Weatherford

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy Date: 6/21/2012 Time: 08:09:46 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: BJ.1 Fed #6H, Grid North
Site: Black Jack 1 Fed #6H Vertical (TVD) Reference: SITE 3500.0
Well: BJ 1 Fed #6H Section (VS) Reference: Well (0.00N,0.00E,357.41Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 6/16/2012
Principal: Yes Version: 1
Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Black Jack 1 Fed #6H

Site Position: Northing: 451372.70 ft Latitude: 32 14 23.640 N
From: Map Easting: 696521.60 ft Longitude: 103 49 53.098 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3481.00 ft Grid Convergence: 0.27 deg

Well: BJ 1 Fed #6H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 451372.70 ft Latitude: 32 14 23.640 N
+E/-W 0.00 ft Easting: 696521.60 ft Longitude: 103 49 53.098 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3500.00 ft
Magnetic Data: 10/15/2012
Field Strength: 48489 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00
Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.54 deg
Mag Dip Angle: 60.12 deg
+E/-W Direction
ft deg
0.00 357.41

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	357.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7357.04	0.00	357.42	7357.04	0.00	0.00	0.00	0.00	0.00	0.00	
8257.04	90.00	357.42	7930.00	572.38	-25.79	10.00	10.00	0.00	357.42	
12552.12	90.00	357.42	7930.00	4863.10	-219.10	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
7300.00	0.00	357.42	7300.00	0.00	0.00	0.00	0.00	451372.70	696521.60	
7357.04	0.00	357.42	7357.04	0.00	0.00	0.00	0.00	451372.70	696521.60	KOP
7400.00	4.30	357.42	7399.96	1.61	-0.07	1.61	10.00	451374.31	696521.53	
7450.00	9.30	357.42	7449.59	7.52	-0.34	7.52	10.00	451380.22	696521.26	
7500.00	14.30	357.42	7498.52	17.72	-0.80	17.74	10.00	451390.42	696520.80	
7550.00	19.30	357.42	7546.37	32.15	-1.45	32.19	10.00	451404.85	696520.15	
7600.00	24.30	357.42	7592.78	50.69	-2.28	50.75	10.00	451423.39	696519.32	
7650.00	29.30	357.42	7637.40	73.21	-3.30	73.28	10.00	451445.91	696518.30	
7700.00	34.30	357.42	7679.88	99.51	-4.48	99.62	10.00	451472.21	696517.12	
7750.00	39.30	357.42	7719.91	129.42	-5.83	129.55	10.00	451502.12	696515.77	
7800.00	44.30	357.42	7757.17	162.70	-7.33	162.87	10.00	451535.40	696514.27	
7850.00	49.30	357.42	7791.39	199.10	-8.97	199.30	10.00	451571.80	696512.63	
7900.00	54.30	357.42	7822.31	238.34	-10.74	238.58	10.00	451611.04	696510.86	
7950.00	59.30	357.42	7849.68	280.12	-12.62	280.40	10.00	451652.82	696508.98	
8000.00	64.30	357.42	7873.30	324.12	-14.60	324.45	10.00	451696.82	696507.00	
8050.00	69.30	357.42	7893.00	370.02	-16.67	370.39	10.00	451742.72	696504.93	
8100.00	74.30	357.42	7908.61	417.45	-18.81	417.88	10.00	451790.15	696502.79	



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Black Jack 1 Fed #6H
Well: BJ 1 Fed #6H
Wellpath: 1

Date: 6/21/2012 Time: 08:09:46 Page: 2
Co-ordinate(NE) Reference: Well: BJ 1 Fed #6H, Grid North
Vertical (TVD) Reference: SITE 3500.0
Section (VS) Reference: Well (0.00N,0.00E,357.41Azi)
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
8150.00	79.30	357.42	7920.03	466.07	-21.00	466.54	10.00	451838.77	696500.60	
8200.00	84.30	357.42	7927.16	515.49	-23.22	516.01	10.00	451888.19	696498.38	
8250.00	89.30	357.42	7929.95	565.34	-25.47	565.92	10.00	451938.04	696496.13	
8257.04	90.00	357.42	7930.00	572.38	-25.79	572.96	10.00	451945.08	696495.81	LP
8300.00	90.00	357.42	7930.00	615.29	-27.72	615.92	0.00	451987.99	696493.88	
8400.00	90.00	357.42	7930.00	715.19	-32.22	715.92	0.00	452087.89	696489.38	
8500.00	90.00	357.42	7930.00	815.09	-36.72	815.92	0.00	452187.79	696484.88	
8600.00	90.00	357.42	7930.00	914.99	-41.22	915.92	0.00	452287.69	696480.38	
8700.00	90.00	357.42	7930.00	1014.89	-45.72	1015.92	0.00	452387.59	696475.88	
8800.00	90.00	357.42	7930.00	1114.79	-50.23	1115.92	0.00	452487.49	696471.37	
8900.00	90.00	357.42	7930.00	1214.69	-54.73	1215.92	0.00	452587.39	696466.87	
9000.00	90.00	357.42	7930.00	1314.58	-59.23	1315.92	0.00	452687.28	696462.37	
9100.00	90.00	357.42	7930.00	1414.48	-63.73	1415.92	0.00	452787.18	696457.87	
9200.00	90.00	357.42	7930.00	1514.38	-68.23	1515.92	0.00	452887.08	696453.37	
9300.00	90.00	357.42	7930.00	1614.28	-72.73	1615.92	0.00	452986.98	696448.87	
9400.00	90.00	357.42	7930.00	1714.18	-77.23	1715.92	0.00	453086.88	696444.37	
9500.00	90.00	357.42	7930.00	1814.08	-81.73	1815.92	0.00	453186.78	696439.87	
9600.00	90.00	357.42	7930.00	1913.98	-86.23	1915.92	0.00	453286.68	696435.37	
9700.00	90.00	357.42	7930.00	2013.87	-90.73	2015.92	0.00	453386.57	696430.87	
9800.00	90.00	357.42	7930.00	2113.77	-95.23	2115.92	0.00	453486.47	696426.37	
9900.00	90.00	357.42	7930.00	2213.67	-99.73	2215.92	0.00	453586.37	696421.87	
10000.00	90.00	357.42	7930.00	2313.57	-104.23	2315.92	0.00	453686.27	696417.37	
10100.00	90.00	357.42	7930.00	2413.47	-108.74	2415.92	0.00	453786.17	696412.86	
10200.00	90.00	357.42	7930.00	2513.37	-113.24	2515.92	0.00	453886.07	696408.36	
10300.00	90.00	357.42	7930.00	2613.27	-117.74	2615.92	0.00	453985.97	696403.86	
10400.00	90.00	357.42	7930.00	2713.17	-122.24	2715.92	0.00	454085.87	696399.36	
10500.00	90.00	357.42	7930.00	2813.06	-126.74	2815.92	0.00	454185.76	696394.86	
10600.00	90.00	357.42	7930.00	2912.96	-131.24	2915.92	0.00	454285.66	696390.36	
10700.00	90.00	357.42	7930.00	3012.86	-135.74	3015.92	0.00	454385.56	696385.86	
10800.00	90.00	357.42	7930.00	3112.76	-140.24	3115.92	0.00	454485.46	696381.36	
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11000.00	90.00	357.42	7930.00	3312.56	-149.24	3315.92	0.00	454685.26	696372.36	
11100.00	90.00	357.42	7930.00	3412.46	-153.74	3415.92	0.00	454785.16	696367.86	
11200.00	90.00	357.42	7930.00	3512.35	-158.24	3515.92	0.00	454885.05	696363.36	
11300.00	90.00	357.42	7930.00	3612.25	-162.74	3615.92	0.00	454984.95	696358.86	
11400.00	90.00	357.42	7930.00	3712.15	-167.25	3715.92	0.00	455084.85	696354.35	
11500.00	90.00	357.42	7930.00	3812.05	-171.75	3815.92	0.00	455184.75	696349.85	
11600.00	90.00	357.42	7930.00	3911.95	-176.25	3915.92	0.00	455284.65	696345.35	
11700.00	90.00	357.42	7930.00	4011.85	-180.75	4015.92	0.00	455384.55	696340.85	
11800.00	90.00	357.42	7930.00	4111.75	-185.25	4115.92	0.00	455484.45	696336.35	
11900.00	90.00	357.42	7930.00	4211.65	-189.75	4215.92	0.00	455584.35	696331.85	
12000.00	90.00	357.42	7930.00	4311.54	-194.25	4315.92	0.00	455684.24	696327.35	
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12300.00	90.00	357.42	7930.00	4611.24	-207.75	4615.92	0.00	455983.94	696313.85	
12400.00	90.00	357.42	7930.00	4711.14	-212.25	4715.92	0.00	456083.84	696309.35	
12500.00	90.00	357.42	7930.00	4811.04	-216.75	4815.92	0.00	456183.74	696304.85	
12552.12	90.00	357.42	7930.00	4863.10	-219.10	4868.03	0.00	456235.80	696302.50	PBHL



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy	Date: 6/21/2012	Time: 08:09:46	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: BJ 1 Fed #6H, Grid North		
Site: Black Jack 1 Fed #6H	Vertical (TVD) Reference: SITE 3500.0		
Well: BJ 1 Fed #6H	Section (VS) Reference: Well (0.00N,0.00E,357.41Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature Db: Sybase		

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---><--- Longitude --->		
PBHL		7930.00	4863.10	-219.10	456235.80	696302.50	32	15	11.774 N 103 49 55.385 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7357.04	7357.04	KOP
8257.04	7930.00	LP
12552.11	7930.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle Dip Direction

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

GeoDec v5.03

Report Date: June 21, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Black Jack 1 Fed #6H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM (NAD 83)
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 451372.700 USFT	Latitude 32.2399026 DEG
East/West 696521.600 USFT	Longitude -103.8314117 DEG
Grid Convergence: .27°	
Total Correction: +7.27°	

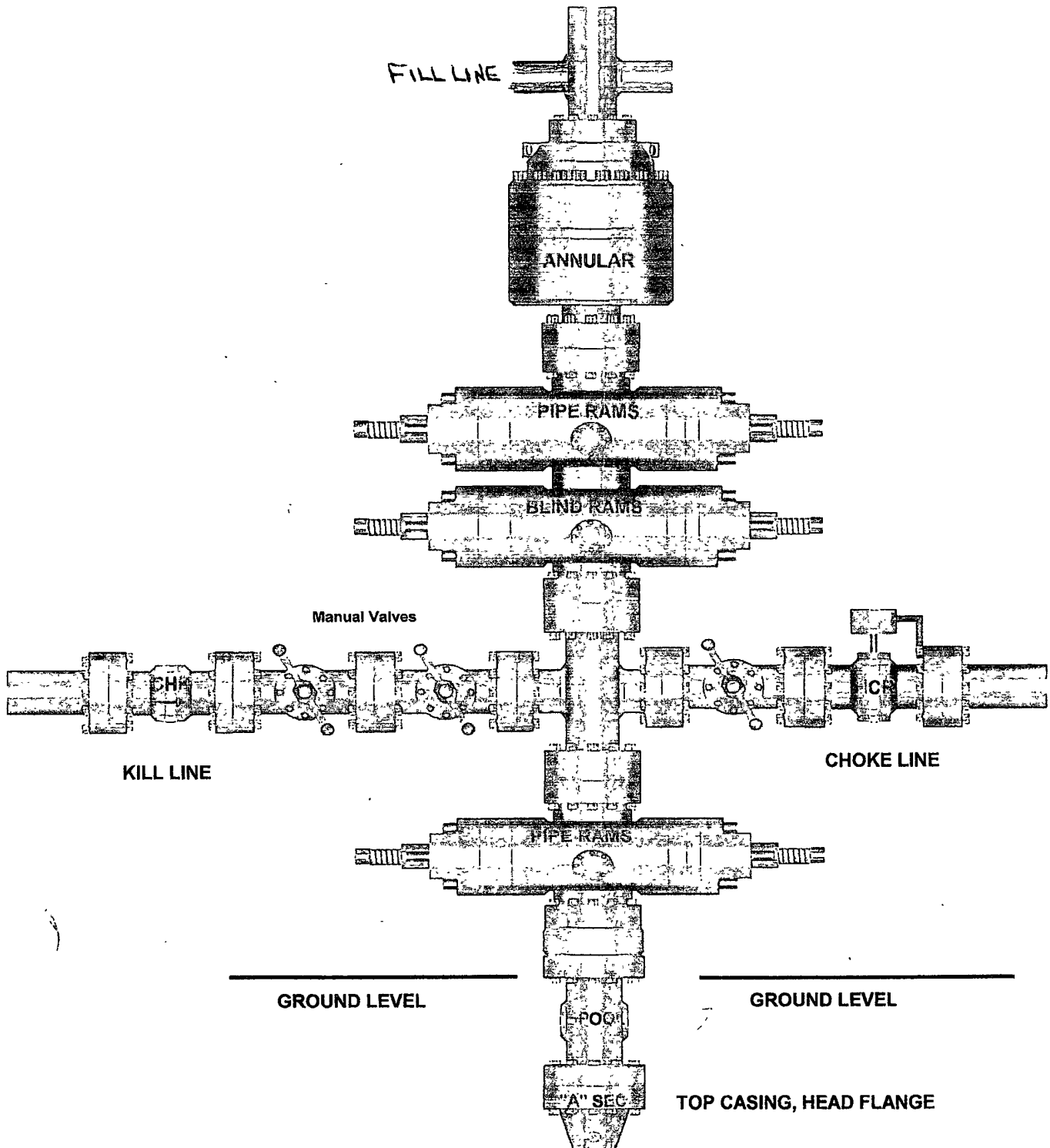
Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.23990° N	32° 14 min 23.649 sec
Longitude =	103.83141° W	103° 49 min 53.082 sec

Magnetic Declination =	7.54°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6557
Local Field Strength =	48485 nT	Magnetic Vector X = 23943 nT
Magnetic Dip =	60.12°	Magnetic Vector Y = 3171 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42042 nT
Spud Date =	Oct 15, 2012	Magnetic Vector H = 24152 nT

Signed: _____

Date: _____

13-5/8" x 3,000 psi BOP Stack

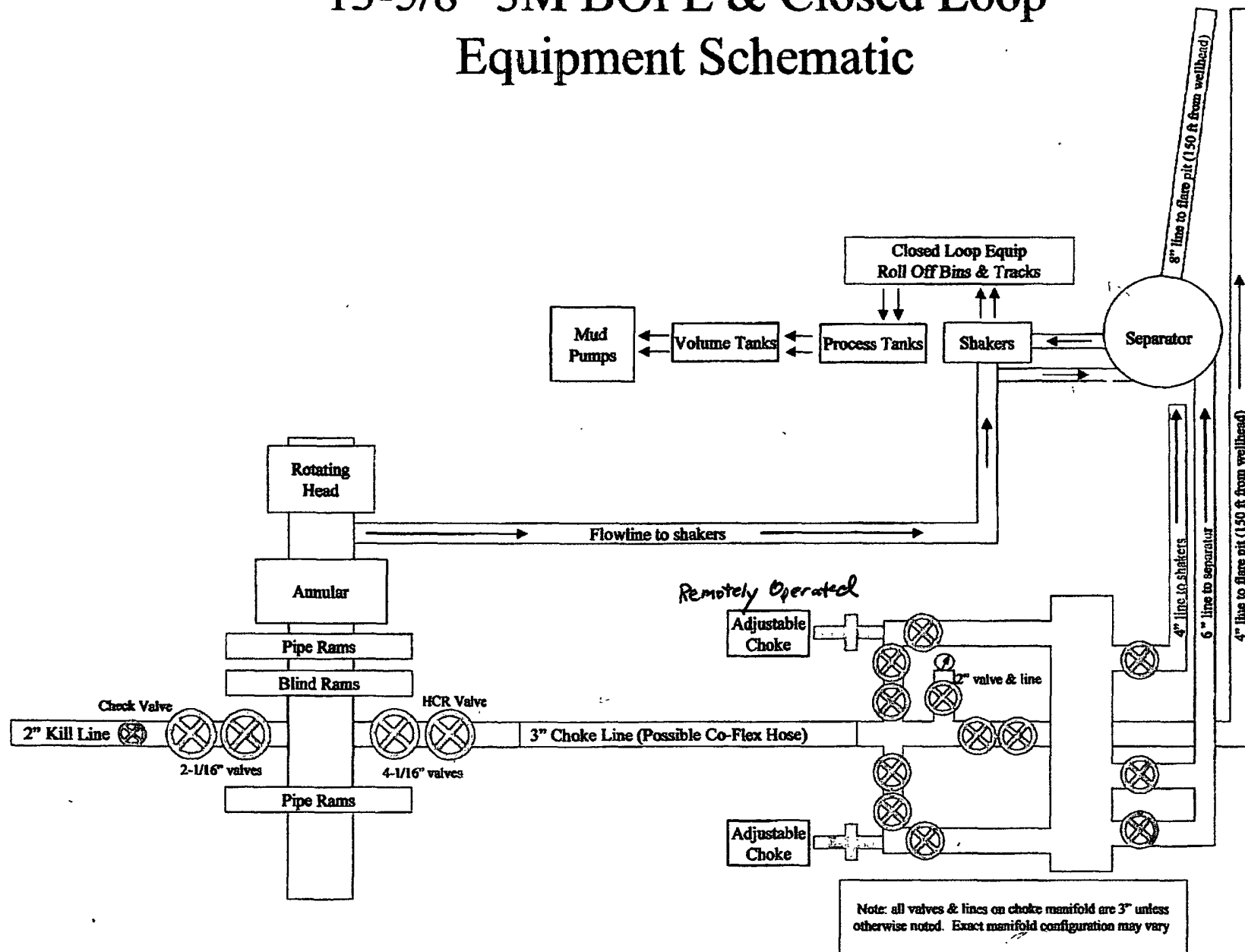


Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Black Jack 1 Fed 6H

Surface Location: 116' FSL & 1780' FEL, Unit O, Sec 1 T24S R30E, Eddy, NM
Bottom Hole Location: 330' FNL & 1980' FEL, Unit B, Sec 1 T24S R30E, 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 5000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

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



Hydrostatic Test Certificate

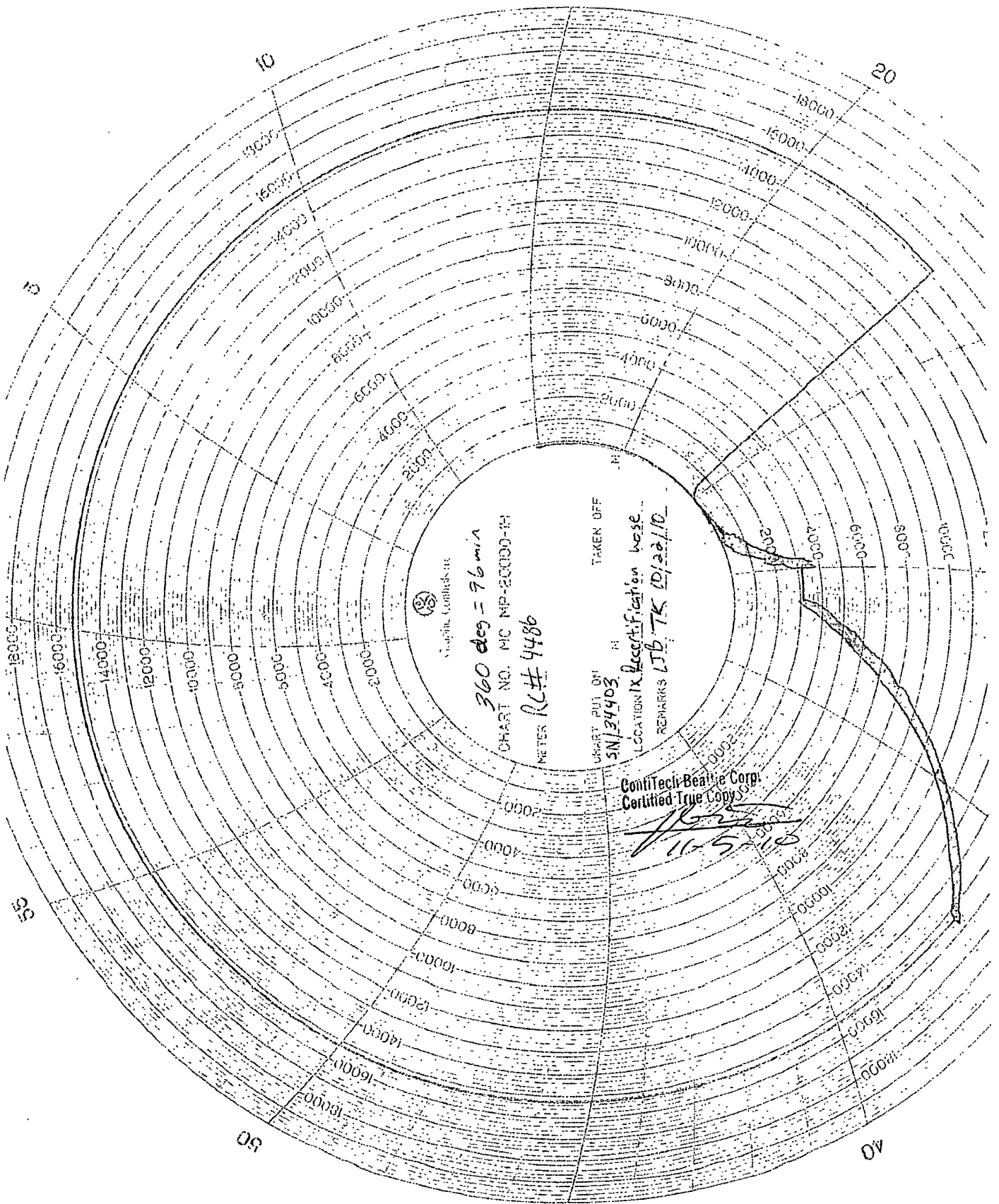


Certificate Number: 4520	PBC No: 10321	Customer Name & Address:
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address:	Accepted by ContiTech Beattie Inspection:	Accepted by Client Inspection:
ContiTech Beattie Corp. 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





**Devon Energy Corporation
333 West Sheridan
Oklahoma City, Oklahoma 73102-5010**

Hydrogen Sulfide (H₂S) Contingency Plan

For

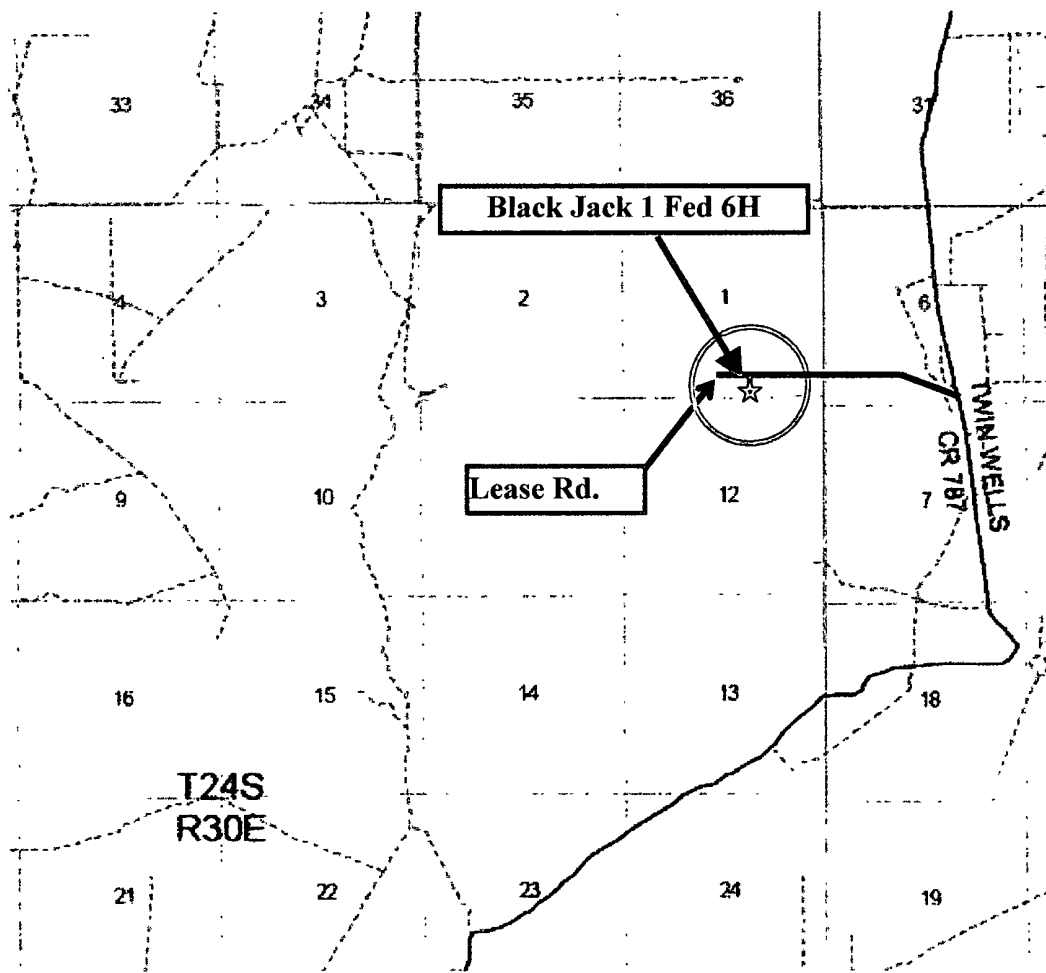
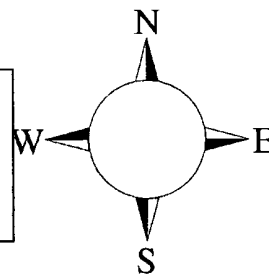
Black Jack 1 Fed 6H

**Sec-1, T-24S R-30E
116' FSL & 1780' FEL,
LAT. = 32.390747°N (NAD83)
LONG = 103.385564°W**

Eddy County NM

Black Jack 1 Fed 6H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road, North then East on lease road. Crews should then block the road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico’s ‘Hazardous Materials Emergency Response Plan’ (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.

2. Protective equipment for essential personnel:

- A. 30-minute SCBA units located in the doghouse and at briefing areas, as indicated on well site diagram. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

- A. Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 PPM are reached. These units are usually capable of detecting SO₂, which is a byproduct of burning H₂S.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate..

5. Mud program:

- A. The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List

<u>Artesia (575)</u>	<u>Cellular</u>	<u>Office</u>	<u>Home</u>
Foreman – Robert Bell.....	748-7448	748-0178	746-2991
Asst. Foreman –Tommy Polly.....	748-5290	748-0165	748-2846
Don Mayberry	748-5235	748-0164	746-4945
Montral Walker	390-5182	748-0193	936-414-6246
Engineer – Marcos Ortiz.....	(405) 317-0666....	(405) 552-8152....	(405) 381-4350

Agency Call List

<u>Lea</u>	<u>Hobbs</u>
<u>County</u>	State Police
<u>(575)</u>	City Police
	Sheriff's Office
	Ambulance.....
	Fire Department.....
	LEPC (Local Emergency Planning Committee).....
	NMOCD
	US Bureau of Land Management

<u>Eddy</u>	<u>Carlsbad</u>
<u>County</u>	State Police
<u>(575)</u>	City Police
	Sheriff's Office
	Ambulance.....
	Fire Department.....
	LEPC (Local Emergency Planning Committee).....
	US Bureau of Land Management
	New Mexico Emergency Response Commission (Santa Fe) ...
	24 HR
	National Emergency Response Center (Washington, DC) ..

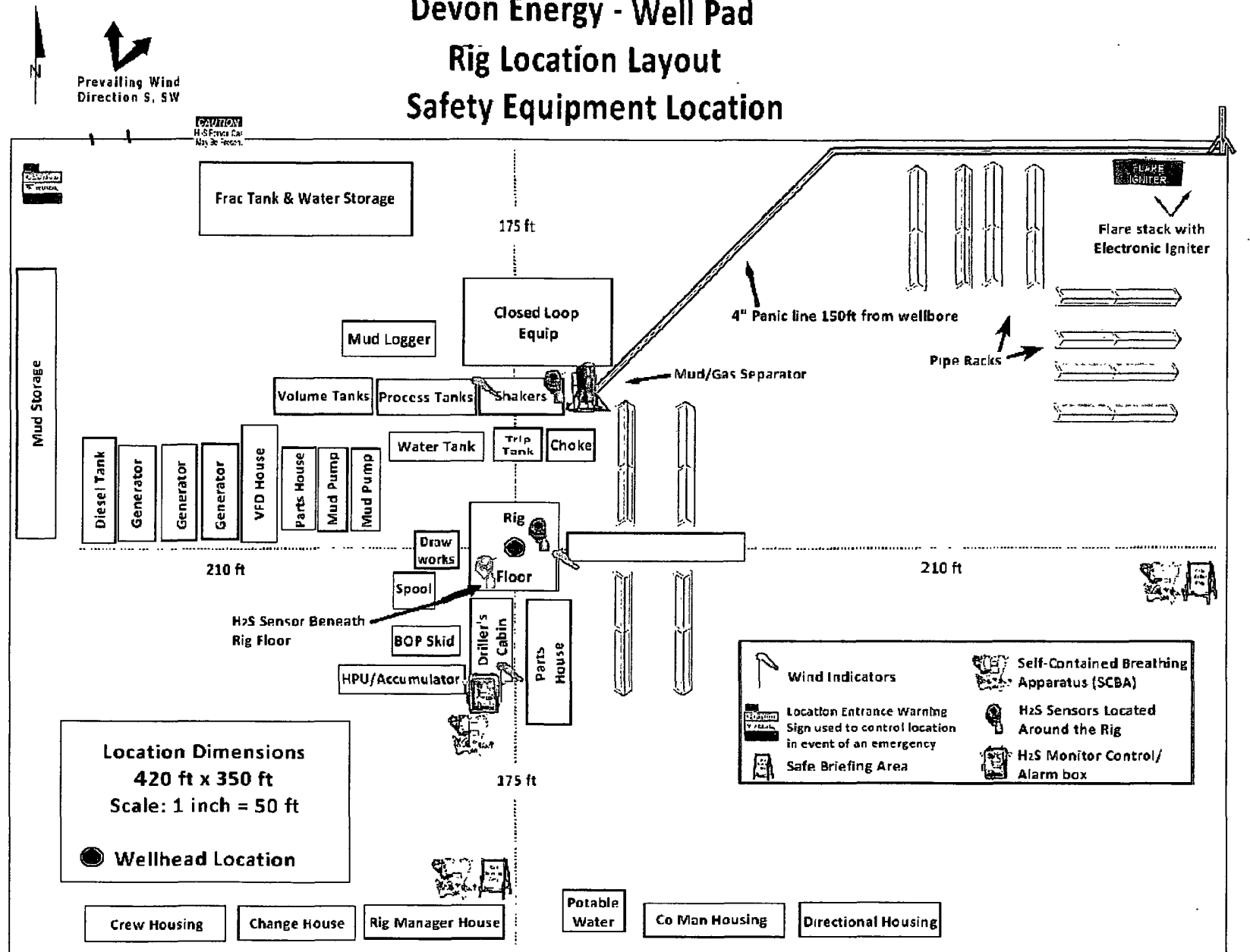
Emergency Services

	Boots & Coots IWC
	Cudd Pressure Control.....
	Halliburton
	B. J. Services.....
<i>Give</i>	Flight For Life - Lubbock, TX
<i>GPS</i>	Aerocare - Lubbock, TX
<i>position:</i>	Med Flight Air Amb - Albuquerque, NM
	Lifeguard Air Med Svc. Albuquerque, NM

Prepared in conjunction with
Wade Rohloff



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



H&P Flex Rig Location Layout

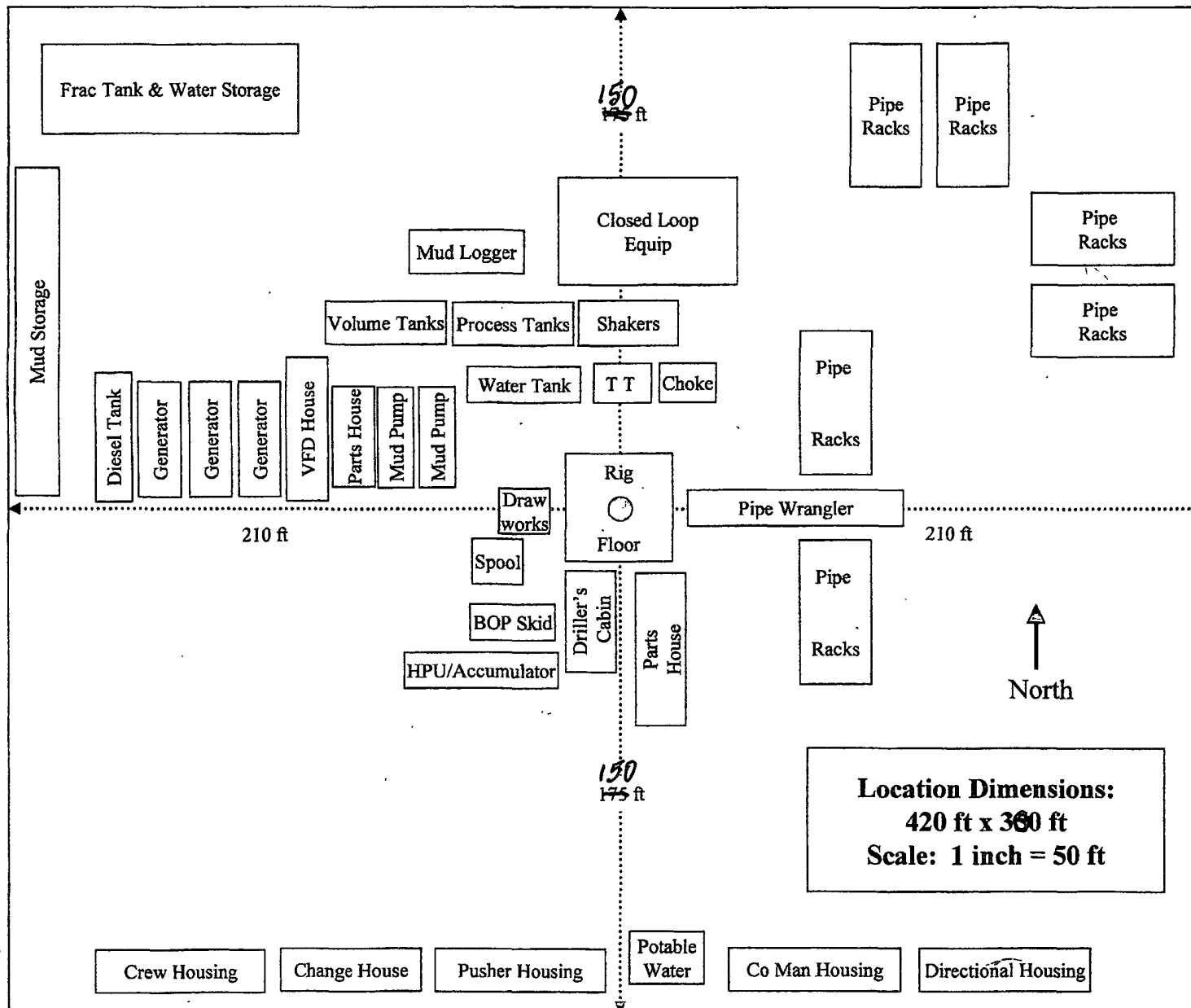
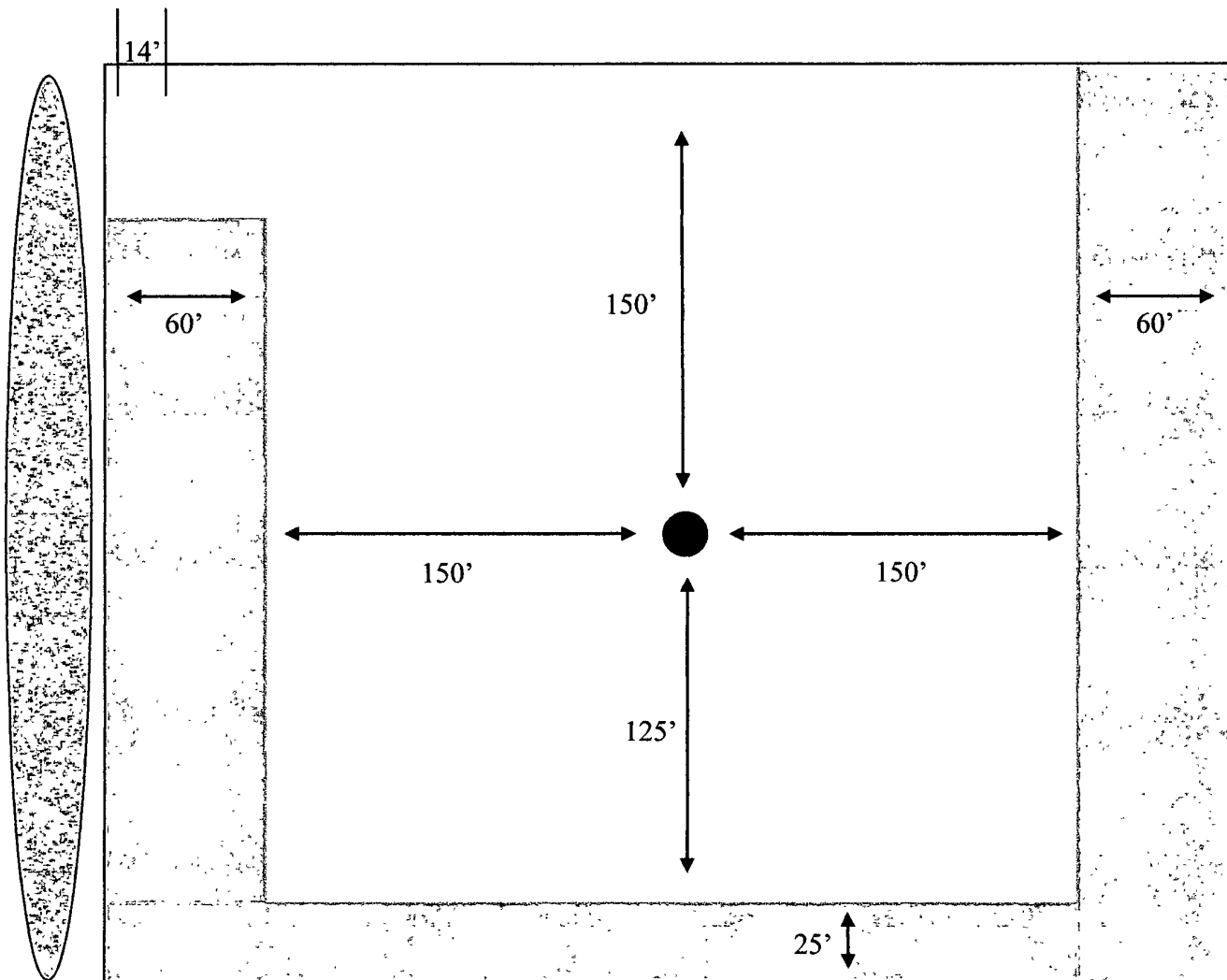


EXHIBIT C

Interim Reclamation & Production Facilities BLACK JACK 1 FED #6H V-DOOR EAST



LEGEND



Well Bore



Topsoil



Interim Reclamation



Production Facilities



NORTH

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY
LEASE NO.:	NM97133
WELL NAME & NO.:	6H-BLACK JACK 1 FED
SURFACE HOLE FOOTAGE:	116'/S. & 1780'/E.
BOTTOM HOLE FOOTAGE:	330'/N. & 1980'/E.
LOCATION:	Section 1, T. 24 S., R. 30 E., NMPM
COUNTY:	Lea County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie-Chicken Timing Stipulations
 - Ground-level Abandoned Well Marker
 - Pad Berming
- ☐ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
 - Secretary's Potash
 - Waste Material and Fluids
 - Logging Requirements
- ☐ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines – not requested
 - Electric Lines – not requested
- ☐ **Interim Reclamation**
- ☒ **Final Abandonment & Reclamation**