

R-111-POTASH

OCD Hobbs

ATS-15-68

Form 3160-3
(March 2012)

HOBBS OCD

JAN 28 2016

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

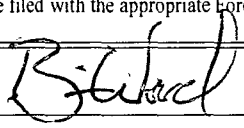
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM-128367
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator DIAMONDBACK RESOURCES LLC (260634)		7. If Unit or CA Agreement, Name and No. N/A
3a. Address 303 VETERANS AIRPARK LN., SUITE 1100 MIDLAND, TX 79705	3b. Phone No. (include area code) 432 685-6100	8. Lease Name and Well No. (314179) EL PAPA GRANDE 29 2H
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 200' FSL & 1340' FWL 29-20S-34E (N) At proposed prod. zone 330' FNL & 1980' FWL 29-20S-34E (C) NORTHODOX LOCATION		9. API Well No. 30-025-43052
14. Distance in miles and direction from nearest town or post office* 19 AIR MILES SW OF MONUMENT, NM		10. Field and Pool, or Exploratory (97895) WC-025 G-08 5213304D; BS
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) SHL: 200' BHL: 330'	16. No. of acres in lease 480	11. Sec., T. R. M. or Blk. and Survey or Area SESW 29-20S-34E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. SHL: 40' (El Papa 29 1H) BHL: 1650' (Willis Fed 1)	19. Proposed Depth TVD: 11,115' MD: 15,734'	12. County or Parish LEA
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3,709.7' UNGRADED	22. Approximate date work will start* 11/01/2014	13. State NM
17. Spacing Unit dedicated to this well E2W2		
20. BLM/BIA Bond No. on file NMB-000540 001090		
23. Estimated duration 3 MONTHS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) BRIAN WOOD (PHONE: 505 466-8120)	Date 09/14/2014
Title CONSULTANT (FAX: 505 466-9682)		
Approved by (Signature) /s/George MacDoneli	Name (Printed/Typed)	Date JAN 26 2016
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Kz
01/29/16SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

FEB 01 2016

Diamondback Resources LLC

DRILL PLAN PAGE 1

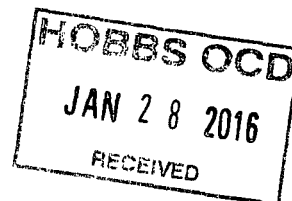
El Papa Grande 29 2H

SHL 200' FSL & 1340' FWL Sec. 29, T. 20 S., R. 34 E.

BHL 330' FNL & 1980' FWL Sec. 29, T. 20 S., R. 34 E.

Lea County, NM

Drilling Program



1. ESTIMATED TOPS

<u>Name</u>	<u>MD</u>	<u>TVD</u>	<u>Content</u>
Quaternary	0'	0'	fresh water
Rustler	1,640'	1,640'	anhydrite
Top salt	1,700'	1,700'	salt
Base salt/Tansill	3,300'	3,300'	salt
Yates	3,514'	3,514'	oil, gas
Capitan	3,660'	3,660'	brackish water
Seven Rivers	3,750'	3,750'	brine water
Cherry Canyon*	5,700'	5,700'	oil, gas
Brushy Canyon	6,903'	6,900'	---
1 st Bone Spring Limestone	8,600'	8,600'	---
1 st Bone Spring Sandstone	9,680'	9,680'	---
2 nd Bone Spring Limestone	9,925'	9,925'	---
2 nd Bone Spring Sandstone	10,200'	10,200'	oil, gas
(KOP build 8°/100' DLS	10,359'	10,359'	---
3 rd Bone Spring Limestone	10,697'	10,685'	---
3 rd Bone Spring Sandstone	11,152'	11,000'	oil, gas
(landing point	11,911'	11,115'	oil, gas)
BHL	15,734'	11,115'	---

*Seven Rivers inter fingers into the Capitan.

2. NOTABLE ZONES

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Water was reported at a depth of 520' in a P & A well (30-025-02481) that is 3,767' northwest. Closest water well (CP 01262) is 6,773' east. No water depth has been recorded to date with the Office of the State Engineer.

Diamondback Resources LLC

DRILL PLAN PAGE 2

El Papa Grande 29 2H

SHL 200' FSL & 1340' FWL Sec. 29, T. 20 S., R. 34 E.

BHL 330' FNL & 1980' FWL Sec. 29, T. 20 S., R. 34 E.

Lea County, NM



3. PRESSURE CONTROL

Variance Denied, see COA

~~Before drilling out the 20" surface casing, a 2000 psi diverter system with rotating head will be installed. It will be tested to 250 psi low and 500 psi high by rig equipment. Diamondback requests a variance from Onshore Order 2 to use a diverter system on the 20" surface casing. Diverter and the BOPE will be connected to the closed loop system through the flow line. There will be no buffer tank.~~

Before drilling out of the 13-3/8" salt protection casing, a 13-5/8" 5000 psi working pressure BOP consisting of one set of blind rams and one set of pipe rams in a double ram housing and a 5000 psi annular type preventer will be installed. The rams will operate independent of one another. A choke manifold will be functionally equivalent to that shown in the choke manifold diagram. The BOPE system accumulator will have sufficient capacity to open the hydraulically controlled gate valve (if so equipped) and close all rams plus the annular preventer and retain a minimum pressure of 200 psi above pre-charge on the closing manifold without use of the closing pumps. The fluid reservoir capacity shall be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir shall be maintained at the manufacturer's recommendations. Two independent sources of power will be available for powering the closing unit pumps. Sufficient nitrogen bottles are suitable as a backup power source only, and will be recharged when the pressure falls below the manufacturer's specifications. Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure has decreased to the pre-set level. Will test to 5000 psi.

The drilling spool or the BOP will have 2 side outlets being a minimum diameter of 3 inch for the choke side and 2 inch for the kill side. The choke line will be a minimum of 3 inches with 2 choke line valves of a minimum of 3 inch diameter. The kill line will be a minimum diameter of 2 inches. Two chokes will be installed on the manifold with one being remotely controlled from the rig floor. Portions of the equipment may be 4 inch.

El Papa Grande 29 2H

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A Kelly cock valve will be installed and maintained in operable condition. A drill string safety valve in the open position will be available on the rig floor. A mud gas separator will be available in H₂S zones. An independent service company will test the BOP and related equipment per Onshore Order 2. Test results of will be submitted to BLM. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole.

4. CASING & CEMENT *See COA*

All casing sizes in the table below will be set from the surface to "interval" TD in the second column.

Hole O. D.	Interval (ft MD)	Casing O. D.	Age	Weight (lb/ft)	Grade	Connection	Collapse Min SF	Burst Min SF	Tension Min SF
26"	0' - 900'	20"	New	94	K-55	BTC	1.125	1.125	1.65
26"	900' - 1665'	20"	New	133	K-55	BTC	1.125	1.125	1.65
17.5"	1665' - 3400'	13.375"	New	72	L-80	BTC	1.125	1.125	1.65
12.25"	3400' - 5750'	9.625"	New	53.5	N-80	BTC	1.125	1.125	1.65
8.5"	5750' - 15734'	5.5"	New	20	P-110	TCPC	1.125	1.4	1.65

The wellbore will be kept vertical to a KOP of 10,359' MD & TVD, where an 8°/100' curve will be built initially on an azimuth of 43.27° and landed at 11,911' MD (11,115' TVD) on azimuth of 360°. The horizontal lateral will be drilled to 15,734' MD (11,115' TVD) on an azimuth of 90°.

Diamondback Resources LLC

DRILL PLAN PAGE 4

El Papa Grande 29 2H

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Lea County, NM

See COA

casing	depth set	sacks cement	TOC	pounds per gallon	ft ³ per sack	gallons per sack	total cubic feet	% excess	blend
surface lead	0' - 1665'	2645	GL	13.5	1.73	9.08	2032	150	1
surface tail		900		14.8	1.33	6.31	897		2
<u>salt lead</u>	1665'	<u>1460</u>	GL	<u>12.6</u>	<u>2.11</u>	11.44	3080	100	3
<u>salt tail</u>	<u>3400'</u>	<u>550</u>		<u>14.8</u>	<u>1.33</u>	6.31	731		4
	<u>3950</u>								
intermediate 1st stage lead	1665' - 5750'	460	GL	12.6	2.1	11.44	966	100	5
intermediate 1st stage tail		225		14.8	1.33	6.31	299		6
intermediate 2nd stage lead		<u>450</u>		<u>12.6</u>	<u>2.11</u>	6.31	949	75	7
intermediate 2nd stage tail		<u>210</u>		<u>14.8</u>	<u>1.33</u>	6.31	279		8
production	5750' - 15734'	4250	GL	14.2	1.26	5.7	5355	35	9

Surface Casing:

Centralizers will be installed on each of the first 3 joints.

Blend 1 (lead) will consist of Class C + 0.25% R-38 + 4% bentonite + 0.1% C-35 + 0.25% R-38 + ¼ pound per sack cello flakes.

Blend 2 (tail) will consist of Class C + 0.15 C-20 + 0.25% R-38.

Salt Protection Casing:

Centralizers will be installed on each of the first 3 joints.

Blend 3 (lead) will consist of Class C 35/65 + 10% salt + 0.25% R-38 + 6% bentonite + 0.1% C-20 + 0.1% C-35 + 0.5% C-45 + ¼ pound per sack cello flakes.

Diamondback Resources LLC

DRILL PLAN PAGE 5

El Papa Grande 29 2H

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Lea County, NM

Blend 4 (tail of salt string) will consist of Class C + 0.1% C-20 + 0.25% R-38.

Intermediate Casing:

Centralizers will be installed on each of the first 3 joints.

See COA
A DV tool will be set at ~~3,880~~ ³⁹⁰⁰ if lost circulation is encountered or the potential to encounter exists. Does not have single stage option on cement program.

Blend 5 (1st stage lead) will consist of Class C 35/65 + 0.25% R-38 + 6% bentonite + 0.1% C-20 + 0.1% C-35 + ¼ pound per sack cello flake + 10% salt.

Blend 6 (1st stage tail) will consist of Class C + 0.1% C-20 + 0.25% R-38.

Blend 7 (2nd stage lead) will consist of Class C 35/65 + 6% bentonite + ¼ pound per sack cello flake + 0.25% R-38 + 0.1% C-20 + 0.5% C-45 + 0.1% C-35 + 10% salt.

Blend 8 (2nd stage tail) will consist of Class C + 0.25% R-38

Production Casing:

Minimum of 1 centralizer will be set on every other joint through the pay zone.

Centralizers will be of a type for horizontal service.

Blend 9 will consist of Class H 50/50 + 0.25% R-38 + 2% bentonite + 0.1% C-20 + 0.1% C-35 + 0.4% C-16A.

Will circulate to the surface.

5. MUD PROGRAM

An electronic/mechanical mud monitor with a minimum pit volume totalizer, stroke counter, and flow sensor will be used.

Interval	Type	Weight	Viscosity	Fluid Loss
0' - 1665'	fresh water native	8.9 - 9.2	28 - 30	no control
1665' - 5750'	brine - saltwater gel	10.0 - 10.1	28 - 30	no control
5750' - 10600'	cut brine	8.9 - 9.1	28 - 29	no control
10600' - TD	cut brine - gel - starch	9.0 - 9.4	38 - 42	10 cc

Diamondback Resources LLC

DRILL PLAN PAGE 6

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Sufficient mud materials will be kept on location at all times in order to combat lost circulation or abnormal pressures. In the event of poor hole conditions, mud properties may have to be adjusted in order to run open hole logs or casing.

See COA
6. CORES, TESTS, & LOGS Need GR/N well log run from TD to surface (horizontal well - vertical portion)

No core or drill stem test is planned.

A 2 person mud logging unit will be used from 5,200' to TD.

No electric logs are planned. MWD gamma will be captured in the curve and lateral.

7. DOWN HOLE CONDITIONS

See COA
~~No~~ ^{Yes} abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is 5,038 psi and expected bottom hole temperature is 155° F.

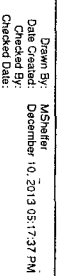
See COA
~~No~~ ^{Yes} H₂S is expected during the drilling phase. Nevertheless, H₂S safety package will be on location before drilling out of the surface casing.

Adequate flare lines will be installed to safely vent gas from the mud gas separator away from the rig to a point at least 150' from the wellhead.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take 3 months to drill and complete the well.

Comments	Survey MD	Inc.	Azim	TVD	SSTVD	Critical Points				Longitude	Latitude	Easting	Northing	DLS	Tool Face
						VS	NS	EW							
SHL	0.00	0.00	43.27	0.00	-3709.70	0.00	0.30	40.10	W 103 35 10.258	N 32 32 14.325	730254.70	559994.00			43.27
KOP Build 8°100' DLS	10339.21	0.00	43.27	10359.21	6649.51	0.00	0.30	40.10	W 103 35 10.258	N 32 32 14.325	730254.70	559994.00	0.00		0.00
Tum 8°100' DLS	11339.21	80.00	43.27	11064.53	7354.83	478.51	431.23	445.76	W 103 35 5.484	N 32 32 18.560	730660.35	560424.92	8.00		-79.55
Landing Point	11911.49	90.00	0.00	11115.00	7405.30	998.36	930.37	642.01	W 103 35 3.151	N 32 32 23.486	730856.59	560924.04	8.00		
PBHL	15733.68	90.00	0.00	11115.00	7405.30	4790.26	4752.55	642.32	W 103 35 2.833	N 32 33 1.305	730856.90	564746.10	0.00		



Diamondback El Papa Grande 2H Rev1 mcs 10Dec13 Proposal Geodetic Report

(Non-Def Plan)

Report Date: December 10, 2013 - 05:15 PM
Client: Diamondback Resources, LLC
Field: NM Lea County (NAD 27)
Structure / Slot: Diamondback El Papa Grande / Diamondback El Papa Grande 2H
Well: Diamondback El Papa Grande 2H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Diamondback El Papa Grande 2H Rev1 mcs 10Dec13
Survey Date: December 10, 2013
Tort / AHD / DDI / ERD Ratio: 124.182 ° / 4963.269 ft / 5.941 / 0.447
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 32' 14.32461", W 103° 35' 10.25773"
Location Grid N/E Y/X: N 559994.000 ftUS, E 730254.700 ftUS
CRS Grid Convergence Angle: 0.4019 °
Grid Scale Factor: 0.99996981

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 7.222 ° (Grid North)
Vertical Section Origin: 0.300 ft, 40.101 ft
TVD Reference Datum: Ground Elevation
TVD Reference Elevation: 3709.700 ft above
Seabed / Ground Elevation: 3709.700 ft above
Magnetic Declination: 7.420 °
Total Gravity Field Strength: 998.4841mgn (9.80665 Based)
Total Magnetic Field Strength: 48510.876 nT
Magnetic Dip Angle: 60.368 °
Declination Date: December 10, 2013
Magnetic Declination Model: BGM 2012
North Reference: Grid North
Grid Convergence Used: 0.4019 °

Total Corr Mag North->Grid North: 7.0188 °

Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
SHL	0.00	0.00	43.27	0.00	-3709.70	0.00	0.30	40.10	N/A
	100.00	0.00	43.27	100.00	-3609.70	0.00	0.30	40.10	0.00
	200.00	0.00	43.27	200.00	-3509.70	0.00	0.30	40.10	0.00
	300.00	0.00	43.27	300.00	-3409.70	0.00	0.30	40.10	0.00
	400.00	0.00	43.27	400.00	-3309.70	0.00	0.30	40.10	0.00
	500.00	0.00	43.27	500.00	-3209.70	0.00	0.30	40.10	0.00
	600.00	0.00	43.27	600.00	-3109.70	0.00	0.30	40.10	0.00
	700.00	0.00	43.27	700.00	-3009.70	0.00	0.30	40.10	0.00
	800.00	0.00	43.27	800.00	-2909.70	0.00	0.30	40.10	0.00
	900.00	0.00	43.27	900.00	-2809.70	0.00	0.30	40.10	0.00
	1000.00	0.00	43.27	1000.00	-2709.70	0.00	0.30	40.10	0.00
	1100.00	0.00	43.27	1100.00	-2609.70	0.00	0.30	40.10	0.00
	1200.00	0.00	43.27	1200.00	-2509.70	0.00	0.30	40.10	0.00
	1300.00	0.00	43.27	1300.00	-2409.70	0.00	0.30	40.10	0.00
	1400.00	0.00	43.27	1400.00	-2309.70	0.00	0.30	40.10	0.00
	1500.00	0.00	43.27	1500.00	-2209.70	0.00	0.30	40.10	0.00
	1600.00	0.00	43.27	1600.00	-2109.70	0.00	0.30	40.10	0.00
Rustler (Base Salt)	1640.00	0.00	43.27	1640.00	-2069.70	0.00	0.30	40.10	0.00
Top Salt	1700.00	0.00	43.27	1700.00	-2009.70	0.00	0.30	40.10	0.00
	1800.00	0.00	43.27	1800.00	-1909.70	0.00	0.30	40.10	0.00
	1900.00	0.00	43.27	1900.00	-1809.70	0.00	0.30	40.10	0.00
	2000.00	0.00	43.27	2000.00	-1709.70	0.00	0.30	40.10	0.00
	2100.00	0.00	43.27	2100.00	-1609.70	0.00	0.30	40.10	0.00
	2200.00	0.00	43.27	2200.00	-1509.70	0.00	0.30	40.10	0.00
	2300.00	0.00	43.27	2300.00	-1409.70	0.00	0.30	40.10	0.00
	2400.00	0.00	43.27	2400.00	-1309.70	0.00	0.30	40.10	0.00
	2500.00	0.00	43.27	2500.00	-1209.70	0.00	0.30	40.10	0.00
	2600.00	0.00	43.27	2600.00	-1109.70	0.00	0.30	40.10	0.00
	2700.00	0.00	43.27	2700.00	-1009.70	0.00	0.30	40.10	0.00
	2800.00	0.00	43.27	2800.00	-909.70	0.00	0.30	40.10	0.00
	2900.00	0.00	43.27	2900.00	-809.70	0.00	0.30	40.10	0.00
	3000.00	0.00	43.27	3000.00	-709.70	0.00	0.30	40.10	0.00
	3100.00	0.00	43.27	3100.00	-609.70	0.00	0.30	40.10	0.00
	3200.00	0.00	43.27	3200.00	-509.70	0.00	0.30	40.10	0.00
Base Salt	3300.00	0.00	43.27	3300.00	-409.70	0.00	0.30	40.10	0.00
	3400.00	0.00	43.27	3400.00	-309.70	0.00	0.30	40.10	0.00
	3500.00	0.00	43.27	3500.00	-209.70	0.00	0.30	40.10	0.00
	3600.00	0.00	43.27	3600.00	-109.70	0.00	0.30	40.10	0.00
	3700.00	0.00	43.27	3700.00	-9.70	0.00	0.30	40.10	0.00
Seven Rivers	3750.00	0.00	43.27	3750.00	40.30	0.00	0.30	40.10	0.00
	3800.00	0.00	43.27	3800.00	90.30	0.00	0.30	40.10	0.00
	3900.00	0.00	43.27	3900.00	190.30	0.00	0.30	40.10	0.00
	4000.00	0.00	43.27	4000.00	290.30	0.00	0.30	40.10	0.00
	4100.00	0.00	43.27	4100.00	390.30	0.00	0.30	40.10	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
	4200.00	0.00	43.27	4200.00	490.30	0.00	0.30	40.10	0.00
	4300.00	0.00	43.27	4300.00	590.30	0.00	0.30	40.10	0.00
	4400.00	0.00	43.27	4400.00	690.30	0.00	0.30	40.10	0.00
	4500.00	0.00	43.27	4500.00	790.30	0.00	0.30	40.10	0.00
	4600.00	0.00	43.27	4600.00	890.30	0.00	0.30	40.10	0.00
	4700.00	0.00	43.27	4700.00	990.30	0.00	0.30	40.10	0.00
	4800.00	0.00	43.27	4800.00	1090.30	0.00	0.30	40.10	0.00
	4900.00	0.00	43.27	4900.00	1190.30	0.00	0.30	40.10	0.00
	5000.00	0.00	43.27	5000.00	1290.30	0.00	0.30	40.10	0.00
	5100.00	0.00	43.27	5100.00	1390.30	0.00	0.30	40.10	0.00
	5200.00	0.00	43.27	5200.00	1490.30	0.00	0.30	40.10	0.00
	5300.00	0.00	43.27	5300.00	1590.30	0.00	0.30	40.10	0.00
	5400.00	0.00	43.27	5400.00	1690.30	0.00	0.30	40.10	0.00
	5500.00	0.00	43.27	5500.00	1790.30	0.00	0.30	40.10	0.00
	5600.00	0.00	43.27	5600.00	1890.30	0.00	0.30	40.10	0.00
Delaware Sands	5700.00	0.00	43.27	5700.00	1990.30	0.00	0.30	40.10	0.00
	5800.00	0.00	43.27	5800.00	2090.30	0.00	0.30	40.10	0.00
	5900.00	0.00	43.27	5900.00	2190.30	0.00	0.30	40.10	0.00
	6000.00	0.00	43.27	6000.00	2290.30	0.00	0.30	40.10	0.00
	6100.00	0.00	43.27	6100.00	2390.30	0.00	0.30	40.10	0.00
	6200.00	0.00	43.27	6200.00	2490.30	0.00	0.30	40.10	0.00
	6300.00	0.00	43.27	6300.00	2590.30	0.00	0.30	40.10	0.00
	6400.00	0.00	43.27	6400.00	2690.30	0.00	0.30	40.10	0.00
	6500.00	0.00	43.27	6500.00	2790.30	0.00	0.30	40.10	0.00
	6600.00	0.00	43.27	6600.00	2890.30	0.00	0.30	40.10	0.00
	6700.00	0.00	43.27	6700.00	2990.30	0.00	0.30	40.10	0.00
	6800.00	0.00	43.27	6800.00	3090.30	0.00	0.30	40.10	0.00
	6900.00	0.00	43.27	6900.00	3190.30	0.00	0.30	40.10	0.00
	7000.00	0.00	43.27	7000.00	3290.30	0.00	0.30	40.10	0.00
	7100.00	0.00	43.27	7100.00	3390.30	0.00	0.30	40.10	0.00
	7200.00	0.00	43.27	7200.00	3490.30	0.00	0.30	40.10	0.00
	7300.00	0.00	43.27	7300.00	3590.30	0.00	0.30	40.10	0.00
	7400.00	0.00	43.27	7400.00	3690.30	0.00	0.30	40.10	0.00
	7500.00	0.00	43.27	7500.00	3790.30	0.00	0.30	40.10	0.00
	7600.00	0.00	43.27	7600.00	3890.30	0.00	0.30	40.10	0.00
	7700.00	0.00	43.27	7700.00	3990.30	0.00	0.30	40.10	0.00
	7800.00	0.00	43.27	7800.00	4090.30	0.00	0.30	40.10	0.00
	7900.00	0.00	43.27	7900.00	4190.30	0.00	0.30	40.10	0.00
	8000.00	0.00	43.27	8000.00	4290.30	0.00	0.30	40.10	0.00
	8100.00	0.00	43.27	8100.00	4390.30	0.00	0.30	40.10	0.00
	8200.00	0.00	43.27	8200.00	4490.30	0.00	0.30	40.10	0.00
	8300.00	0.00	43.27	8300.00	4590.30	0.00	0.30	40.10	0.00
	8400.00	0.00	43.27	8400.00	4690.30	0.00	0.30	40.10	0.00
	8500.00	0.00	43.27	8500.00	4790.30	0.00	0.30	40.10	0.00
1st Bone Spring Lm.	8600.00	0.00	43.27	8600.00	4890.30	0.00	0.30	40.10	0.00
	8700.00	0.00	43.27	8700.00	4990.30	0.00	0.30	40.10	0.00
	8800.00	0.00	43.27	8800.00	5090.30	0.00	0.30	40.10	0.00
	8900.00	0.00	43.27	8900.00	5190.30	0.00	0.30	40.10	0.00
	9000.00	0.00	43.27	9000.00	5290.30	0.00	0.30	40.10	0.00
	9100.00	0.00	43.27	9100.00	5390.30	0.00	0.30	40.10	0.00
	9200.00	0.00	43.27	9200.00	5490.30	0.00	0.30	40.10	0.00
	9300.00	0.00	43.27	9300.00	5590.30	0.00	0.30	40.10	0.00
	9400.00	0.00	43.27	9400.00	5690.30	0.00	0.30	40.10	0.00
	9500.00	0.00	43.27	9500.00	5790.30	0.00	0.30	40.10	0.00
	9600.00	0.00	43.27	9600.00	5890.30	0.00	0.30	40.10	0.00
1st Bone Spring Sd.	9680.00	0.00	43.27	9680.00	5970.30	0.00	0.30	40.10	0.00
	9700.00	0.00	43.27	9700.00	5990.30	0.00	0.30	40.10	0.00
	9800.00	0.00	43.27	9800.00	6090.30	0.00	0.30	40.10	0.00
	9900.00	0.00	43.27	9900.00	6190.30	0.00	0.30	40.10	0.00
2nd Bone Spring Lm.	9925.00	0.00	43.27	9925.00	6215.30	0.00	0.30	40.10	0.00
	10000.00	0.00	43.27	10000.00	6290.30	0.00	0.30	40.10	0.00
	10100.00	0.00	43.27	10100.00	6390.30	0.00	0.30	40.10	0.00
2nd Bone Spring Sd.	10200.00	0.00	43.27	10200.00	6490.30	0.00	0.30	40.10	0.00
	10300.00	0.00	43.27	10300.00	6590.30	0.00	0.30	40.10	0.00
KOP Build 8°/100' DLS	10359.21	0.00	43.27	10359.21	6649.51	0.00	0.30	40.10	0.00
	10400.00	3.26	43.27	10399.98	6690.28	0.94	1.15	40.90	8.00
	10500.00	11.26	43.27	10499.09	6789.39	11.15	10.34	49.56	8.00

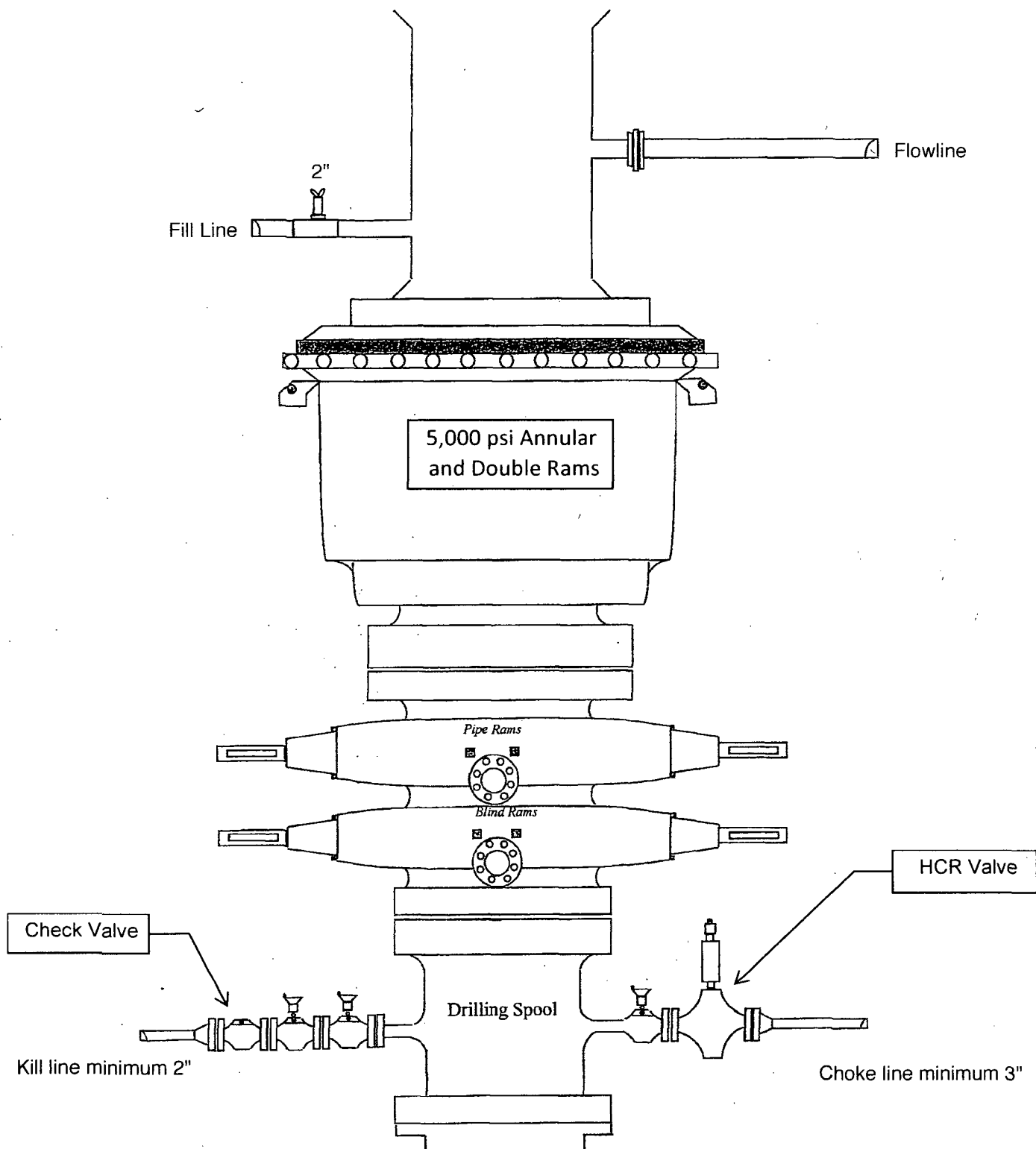
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
3rd Bone Spring Lm.	10600.00	19.26	43.27	10595.49	6885.79	32.42	29.50	67.59	8.00
	10697.43	27.06	43.27	10685.00	6975.30	63.38	57.38	93.83	8.00
	10700.00	27.26	43.27	10687.28	6977.58	64.33	58.23	94.64	8.00
	10800.00	35.26	43.27	10772.69	7062.99	106.25	95.99	130.18	8.00
3rd Bone Spring Sd.	10900.00	43.26	43.27	10850.06	7140.36	157.38	142.03	173.52	8.00
	11000.00	51.26	43.27	10917.86	7208.16	216.72	195.47	223.83	8.00
	11100.00	59.26	43.27	10974.80	7265.10	283.11	255.26	280.11	8.00
	11152.60	63.47	43.27	11000.00	7290.30	320.43	288.87	311.75	8.00
	11200.00	67.26	43.27	11019.75	7310.05	355.26	320.23	341.27	8.00
Turn 8°/100' DLS	11300.00	75.26	43.27	11051.85	7342.15	431.76	389.13	406.13	8.00
	11359.21	80.00	43.27	11064.53	7354.83	478.51	431.23	445.76	8.00
	11400.00	80.61	40.02	11071.40	7361.70	511.67	461.27	472.48	8.00
	11500.00	82.22	32.09	11086.35	7376.65	598.23	541.15	530.61	8.00
	11600.00	83.97	24.23	11098.39	7388.69	690.87	628.61	577.41	8.00
Landing Point	11700.00	85.84	16.42	11107.28	7397.58	787.81	721.94	611.97	8.00
	11800.00	87.79	8.65	11112.85	7403.15	887.14	819.33	633.61	8.00
	11900.00	89.77	0.89	11114.98	7405.28	986.95	918.88	641.92	8.00
	11911.49	90.00	0.00	11115.00	7405.30	998.36	930.37	642.01	8.00
	12000.00	90.00	0.00	11115.00	7405.30	1086.16	1018.87	642.02	0.00
	12100.00	90.00	0.00	11115.00	7405.30	1185.37	1118.87	642.03	0.00
	12200.00	90.00	0.00	11115.00	7405.30	1284.58	1218.87	642.03	0.00
	12300.00	90.00	0.00	11115.00	7405.30	1383.79	1318.87	642.04	0.00
	12400.00	90.00	0.00	11115.00	7405.30	1483.00	1418.87	642.05	0.00
	12500.00	90.00	0.00	11115.00	7405.30	1582.20	1518.87	642.06	0.00
	12600.00	90.00	0.00	11115.00	7405.30	1681.41	1618.87	642.07	0.00
	12700.00	90.00	0.00	11115.00	7405.30	1780.62	1718.87	642.07	0.00
	12800.00	90.00	0.00	11115.00	7405.30	1879.83	1818.87	642.08	0.00
	12900.00	90.00	0.00	11115.00	7405.30	1979.03	1918.87	642.09	0.00
	13000.00	90.00	0.00	11115.00	7405.30	2078.24	2018.87	642.10	0.00
	13100.00	90.00	0.00	11115.00	7405.30	2177.45	2118.87	642.11	0.00
	13200.00	90.00	0.00	11115.00	7405.30	2276.66	2218.87	642.11	0.00
	13300.00	90.00	0.00	11115.00	7405.30	2375.86	2318.87	642.12	0.00
	13400.00	90.00	0.00	11115.00	7405.30	2475.07	2418.87	642.13	0.00
	13500.00	90.00	0.00	11115.00	7405.30	2574.28	2518.87	642.14	0.00
	13600.00	90.00	0.00	11115.00	7405.30	2673.49	2618.87	642.15	0.00
	13700.00	90.00	0.00	11115.00	7405.30	2772.69	2718.87	642.16	0.00
	13800.00	90.00	0.00	11115.00	7405.30	2871.90	2818.87	642.16	0.00
	13900.00	90.00	0.00	11115.00	7405.30	2971.11	2918.87	642.17	0.00
	14000.00	90.00	0.00	11115.00	7405.30	3070.32	3018.87	642.18	0.00
	14100.00	90.00	0.00	11115.00	7405.30	3169.53	3118.87	642.19	0.00
	14200.00	90.00	0.00	11115.00	7405.30	3268.73	3218.87	642.20	0.00
	14300.00	90.00	0.00	11115.00	7405.30	3367.94	3318.87	642.20	0.00
	14400.00	90.00	0.00	11115.00	7405.30	3467.15	3418.87	642.21	0.00
	14500.00	90.00	0.00	11115.00	7405.30	3566.36	3518.87	642.22	0.00
	14600.00	90.00	0.00	11115.00	7405.30	3665.56	3618.87	642.23	0.00
	14700.00	90.00	0.00	11115.00	7405.30	3764.77	3718.87	642.24	0.00
	14800.00	90.00	0.00	11115.00	7405.30	3863.98	3818.87	642.24	0.00
	14900.00	90.00	0.00	11115.00	7405.30	3963.19	3918.87	642.25	0.00
	15000.00	90.00	0.00	11115.00	7405.30	4062.39	4018.87	642.26	0.00
	15100.00	90.00	0.00	11115.00	7405.30	4161.60	4118.87	642.27	0.00
	15200.00	90.00	0.00	11115.00	7405.30	4260.81	4218.87	642.28	0.00
	15300.00	90.00	0.00	11115.00	7405.30	4360.02	4318.87	642.29	0.00
	15400.00	90.00	0.00	11115.00	7405.30	4459.22	4418.87	642.29	0.00
	15500.00	90.00	0.00	11115.00	7405.30	4558.43	4518.87	642.30	0.00
	15600.00	90.00	0.00	11115.00	7405.30	4657.64	4618.87	642.31	0.00
	15700.00	90.00	0.00	11115.00	7405.30	4756.85	4718.87	642.32	0.00
Diamondback El Papa Grande 2H - PBHL	15733.68	90.00	0.00	11115.00	7405.30	4790.26	4752.55	642.32	0.00

Survey Type: Non-Def Plan

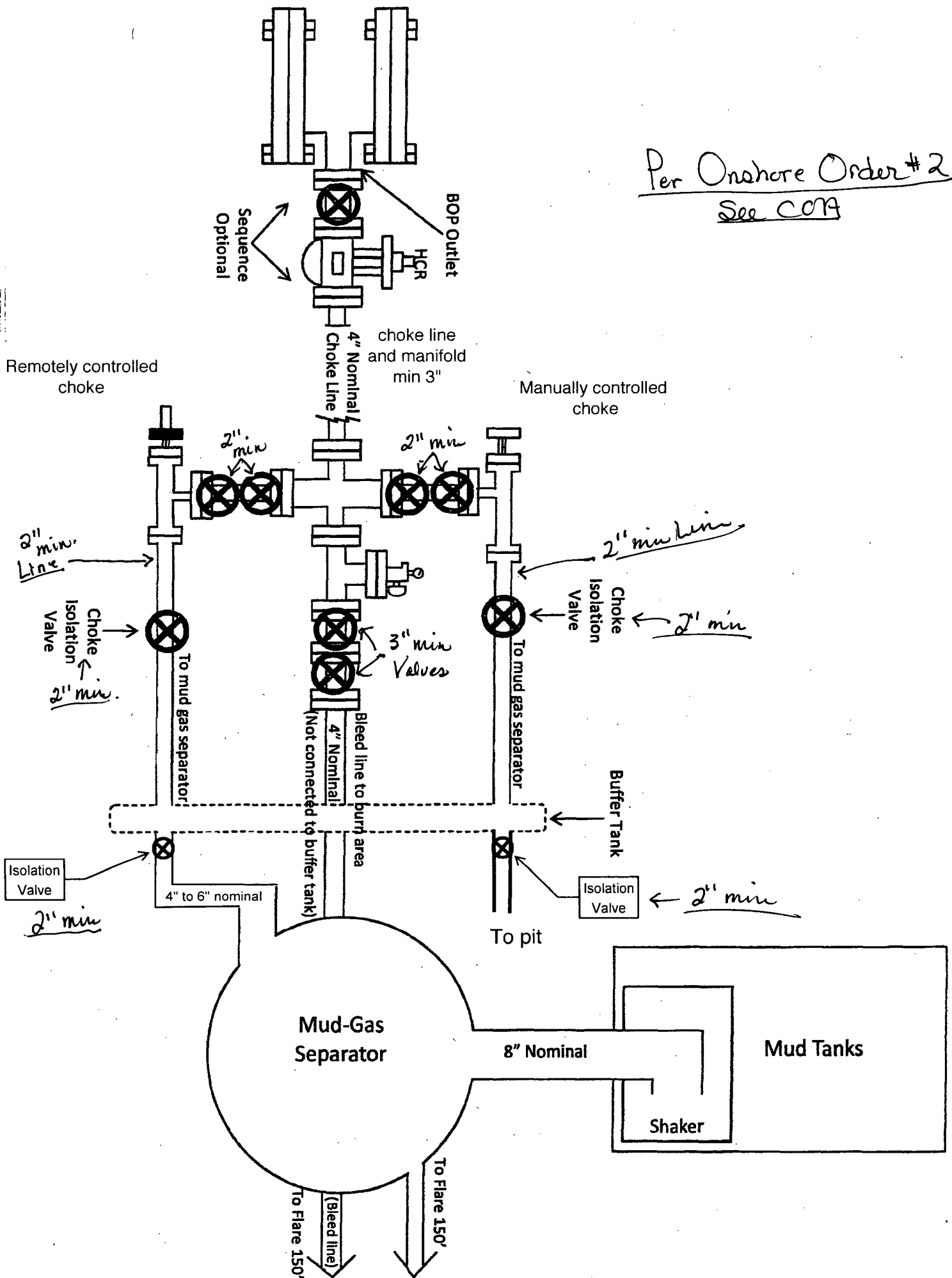
Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type
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Per Onshore Order #2
See COA



**Diamondback Resources LLC
El Papa Grande 29 2H
Closed Loop System**

**Operating and Maintenance Procedures
and
Closure Plan**

Operating Procedures

Diamondback Resources LLC will use a closed loop system to collect and process drilling fluids and solids generated during drilling operations. This system (see Figure 1) will be monitored, serviced, and maintained 24 hours daily by rig personnel. All liquids and solids will be contained in steel vessels.

Drilling fluids will be recycled and reused on location or temporarily stored for use on subsequent wells. Surplus fluids will be transported to a state approved disposal site.

Solids will be separated from the drilling fluids and transferred to transport containers. The containers will be trucked to a state approved disposal site for solids disposal.

No hazardous materials will be discharged into the closed loop system.

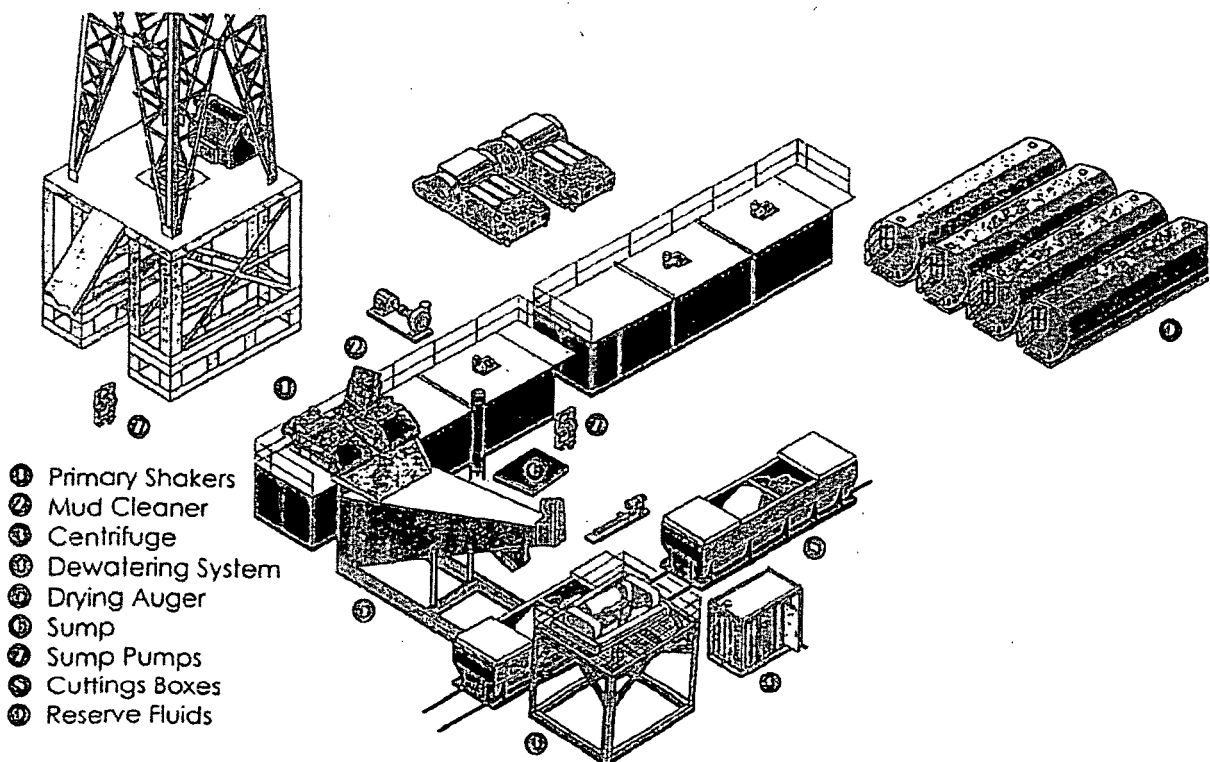
Closure Plan

Upon the conclusion of drilling operations, the closed loop system will be removed from the well site. Upon completion of testing and facility operations, the location pad size will be reduced to the minimum allowed for safe and efficient operation. Stockpiled surface materials will be used to restore the location to as original condition as feasible (see Surface Plan).

FIGURE 1

CLOSED LOOP SYSTEM

Diamondback Resources



Note: Exact equipment and layout configuration may vary dependent upon Rig utilized and Vendor availability.

Diamondback's
El Papa Grande 29 2H
rig diagram

NORTH 
1" = 75'

