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13-1202

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NMNM-1283676. If Indian, Allottee or Tribe Name
N/A7. If Unit or CA Agreement, Name and No.
N/A8. Lease Name and Well
EL PAPA GRANDE 29.1H9. API Well No.
30-025- 42416

10. Field and Pool, or Exploratory

TEAS; BONE SPRING (58960)

11. Sec., T. R. M. or Blk. and Survey or Area
SSWS 29-20S-34E12. County or Parish
LEA13. State
NM1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator DIAMONDBACK RESOURCES LLC

3a. Address 303 VETERANS AIRPARK LN., SUITE 1100
MIDLAND, TX 797053b. Phone No. (include area code)
432 685-6100

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 200' FSL & 1300' FWL

At proposed prod. zone 330' FNL & 660' FWL

14. Distance in miles and direction from nearest town or post office*
19 AIR MILES SW OF MONUMENT, NM15. Distance from proposed*
location to nearest
property or lease line, ft. SHL: 200'
BHL: 330'
(Also to nearest drig. unit line, if any)16. No. of acres in lease
48017. Spacing Unit dedicated to this well
W2W218. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. SHL: 1282' (Flint Govt. 2)
BHL: 330' (Willis Fed. 1)19. Proposed Depth
TVD: 11,115' MD: 15,736'
Pilot Hole TD: 11,450'20. BLM/BIA Bond No. on file
NMB-00054021. Elevations (Show whether DF, KDB, RT, GL, etc.)
3,709.7' UNGRADED22. Approximate date work will start*
05/01/201423. 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:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. 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

01/09/2014

Title

CONSULTANT

(FAX: 505 466-9682)

Approved by (Signature)

/s/George MacDoneli

Name (Printed/Typed)

Date

JAN 28 2015

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

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

FEB 03 2015

El Papa Grande 29 1H

SHL 200' FSL & 1300' FWL Sec. 29, T. 20 S., R. 34 E.

BHL 330' FNL & 660' FWL Sec. 29, T. 20 S., R. 34 E.

Lea County, NM

Drilling Program1. 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	3,516'	3,514'	oil, gas
Capitan	3,662'	3,660'	brackish water
Seven Rivers	3,753'	3,750'	brine water
Cherry Canyon*	5,703'	5,700'	oil, gas
Brushy Canyon	6,903'	6,900'	---
Bone Spring	8,603'	8,600'	---
1st Bone Spring Sandstone	9,683'	9,680'	oil, gas
2 nd Bone Spring Limestone	9,928'	9,925'	---
2 nd Bone Spring Sandstone	10,203'	10,200'	oil, gas
3 rd Bone Spring Limestone	10,700'	10,685'	---
3 rd Bone Spring Sandstone	11,157'	11,000'	oil, gas
Wolfcamp**	11,230'	11,230'	---
BHL	15,736'	11,115'	---

*Seven Rivers inter fingers into the Capitan.

**Wolfcamp will be penetrated for a pilot hole to allow all of the Bone Spring to be logged.

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 3,732' northwest. Closest water well (CP 01262) is 6,776' east. No water depth has been recorded to date with the Office of the State Engineer.

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Lea County, NM

3. PRESSURE CONTROL

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.

Diamondback Resources LLC

DRILL PLAN PAGE 3

El Papa Grande 29 1H

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Lea County, NM

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

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

See COA

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' 2850'	13.375"	New	72	L-80	BTC	1.125	1.125	1.65
12.25"	3400' 5750' - 5750' 5600'	9.625"	New	53.5	N-80	BTC	1.125	1.125	1.65
8.5"	5750' 15736'	5.5"	New	20	P-110	TCPC	1.125	1.4	1.65

At 3,000' the inclination will be built to 7° and held on an azimuth of 270° to a depth of 3,502' MD, then allowed to drop to vertical. A pilot hole will be drilled to a TD of 11,450' MD (i. e., 220' into the Wolfcamp) and logged as described herein. After logging, 640 sacks (601 cubic feet) of Class H balanced cement + 0.65% C37 + 0.25 C20 will be set as a kick off plug from 11,450' to 10,061'. Cement specifications are 17.5 pounds per gallon, 0.94 ft³/sack, 3.35 gallons per sack, and 10% excess.

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DRILL PLAN PAGE 4

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Lea County, NM

After WOC, the kick off cement plug will be dressed off to a kick off point of 10,361'. An 8°/100' curve will then be built, turning from 270° to 360° azimuth, and landed at 11,924' MD (11,114' TVD). The horizontal lateral will be drilled at a 90° inclination to 15,736' MD at an azimuth of 360°.

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
salt lead	1665' - 3400'	1460	GL	12.6	2.11	11.44	3080	100	3
salt tail		550		14.8	1.33	6.31	731		4
intermediate 1st stage lead	1665' - 5250'	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		450		12.6	2.11	6.31	949	75	7
intermediate 2nd stage tail		210		14.8	1.33	6.31	279		8
production	5750' - 15736'	3868	GL 5250'	14.2	1.26	5.7	4874	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.

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DRILL PLAN PAGE 5

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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.

Blend 4 (tail) 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'~~ *See COA* if lost circulation is encountered or the potential to encounter exists.

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.

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5. MUD PROGRAM

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

See
COA

Interval	Type	Weight	Viscosity	Fluid Loss
0' - 1665' 5600'	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

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.

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

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

GR-CNL-LDT and GR-DLL-MSFL logs will be run from the pilot hole TD to the intermediate shoe at 5750'. MWD gamma will be captured in the curve and lateral.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is 5,038 psi and expected bottom hole temperature is 155° F.

No H₂S is expected during the drilling phase. Nevertheless, H₂S safety package will be on location before drilling out of the surface casing.

Diamondback Resources LLC

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

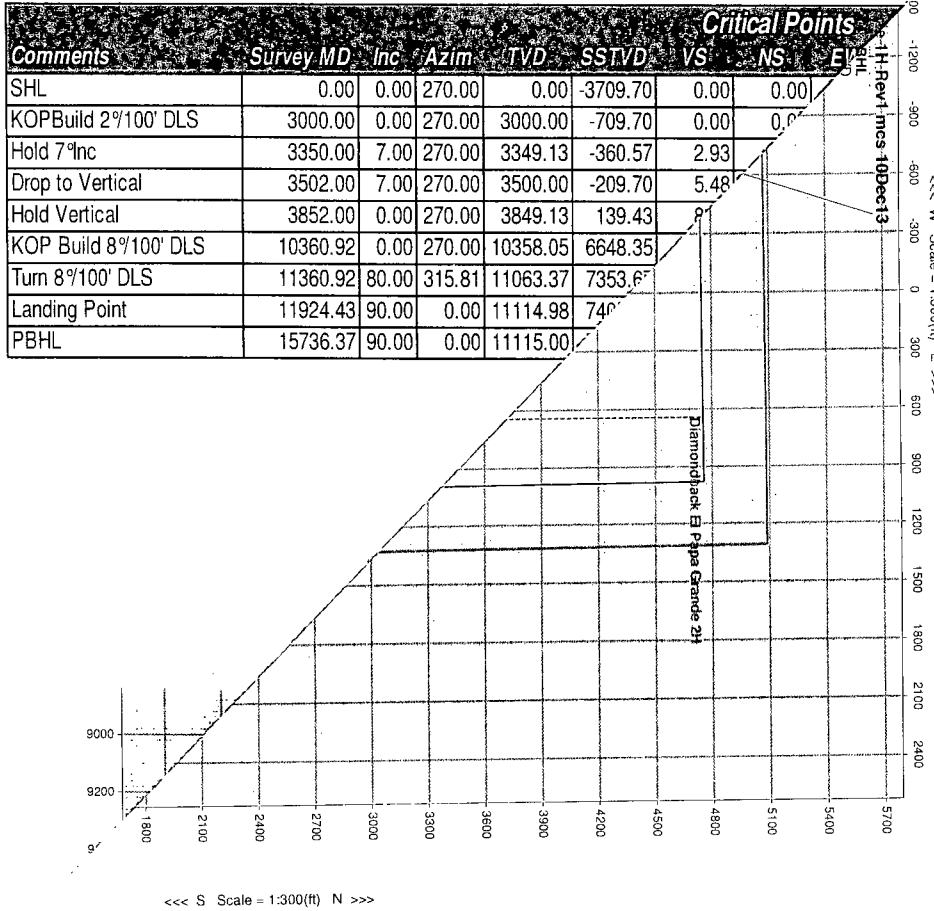
8. OTHER INFORMATION

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

This will be a third Bone Spring sand completion.

Dian LLC

WELL		FIELD	
El Papa Grande 29 1H		Lee	
Magnetic Parameters		Surface Location	
Model: BGGM 2012	Dip: 60.382°	Lat:	
	Mag Dec: 7.467°	Long:	



Miscellaneous
 Site: El Papa Grande 1H
 Plan: Rev 1 mcs 10 Dec 13
 TVD Ref: General Direction (70° 7H above)
 Rev Date: July 17, 2013

STRUCTURE
 TBD

REV 1

PATHFINDER
 A Schlumberger Company

El Papa Grande 29 1H Rev1 mcs 10Dec13 Proposal Geodetic



Report (Non-Def Plan)

Report Date:	December 10, 2013 - 05:25 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Diamondback Resources, LLC	Vertical Section Azimuth:	352.106 ° (Grid North)
Field:	NM Lea County (NAD 27)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Diamondback El Papa Grande / Diamondback El Papa Grande 1H	TVD Reference Datum:	Ground Elevation
Well:	Diamondback El Papa Grande 1H	TVD Reference Elevation:	3709.700 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3709.700 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.467 °
Survey Name:	Diamondback El Papa Grande 1H Rev1 mcs 10Dec13	Total Gravity Field Strength:	998.4841mgN (9.80665 Based)
Survey Date:	July 17, 2013	Total Magnetic Field Strength:	48562.276 nT
Tort / AHD / DDI / ERD Ratio:	139.081 ° / 5025.410 ft / 5.995 / 0.452	Magnetic Dip Angle:	60.382 °
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Declination Date:	July 17, 2013
Location Lat / Long:	N 32° 32' 14.32443", W 103° 35' 10.72615"	Magnetic Declination Model:	BGGM 2012
Location Grid N/E Y/X:	N 559993.700 RUS, E 730214.600 RUS	North Reference:	Grid North
CRS Grid Convergence Angle:	0.4018 °	Grid Convergence Used:	0.4018 °
Grid Scale Factor:	0.99996979	Total Corr Mag North->Grid North:	7.0654 °

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	270.00	0.00	-3709.70	0.00	0.00	0.00	N/A
	100.00	0.00	270.00	100.00	-3609.70	0.00	0.00	0.00	0.00
	200.00	0.00	270.00	200.00	-3509.70	0.00	0.00	0.00	0.00
	300.00	0.00	270.00	300.00	-3409.70	0.00	0.00	0.00	0.00
	400.00	0.00	270.00	400.00	-3309.70	0.00	0.00	0.00	0.00
	500.00	0.00	270.00	500.00	-3209.70	0.00	0.00	0.00	0.00
	600.00	0.00	270.00	600.00	-3109.70	0.00	0.00	0.00	0.00
	700.00	0.00	270.00	700.00	-3009.70	0.00	0.00	0.00	0.00
	800.00	0.00	270.00	800.00	-2909.70	0.00	0.00	0.00	0.00
	900.00	0.00	270.00	900.00	-2809.70	0.00	0.00	0.00	0.00
Rustler (Base Salt) Top Salt	1000.00	0.00	270.00	1000.00	-2709.70	0.00	0.00	0.00	0.00
	1100.00	0.00	270.00	1100.00	-2609.70	0.00	0.00	0.00	0.00
	1200.00	0.00	270.00	1200.00	-2509.70	0.00	0.00	0.00	0.00
	1300.00	0.00	270.00	1300.00	-2409.70	0.00	0.00	0.00	0.00
	1400.00	0.00	270.00	1400.00	-2309.70	0.00	0.00	0.00	0.00
	1500.00	0.00	270.00	1500.00	-2209.70	0.00	0.00	0.00	0.00
	1600.00	0.00	270.00	1600.00	-2109.70	0.00	0.00	0.00	0.00
	1640.00	0.00	270.00	1640.00	-2069.70	0.00	0.00	0.00	0.00
	1700.00	0.00	270.00	1700.00	-2009.70	0.00	0.00	0.00	0.00
	1800.00	0.00	270.00	1800.00	-1909.70	0.00	0.00	0.00	0.00
KOPBuild 2"/100' DLS	1900.00	0.00	270.00	1900.00	-1809.70	0.00	0.00	0.00	0.00
	2000.00	0.00	270.00	2000.00	-1709.70	0.00	0.00	0.00	0.00
	2100.00	0.00	270.00	2100.00	-1609.70	0.00	0.00	0.00	0.00
	2200.00	0.00	270.00	2200.00	-1509.70	0.00	0.00	0.00	0.00
	2300.00	0.00	270.00	2300.00	-1409.70	0.00	0.00	0.00	0.00
	2400.00	0.00	270.00	2400.00	-1309.70	0.00	0.00	0.00	0.00
	2500.00	0.00	270.00	2500.00	-1209.70	0.00	0.00	0.00	0.00
	2600.00	0.00	270.00	2600.00	-1109.70	0.00	0.00	0.00	0.00
	2700.00	0.00	270.00	2700.00	-1009.70	0.00	0.00	0.00	0.00
	2800.00	0.00	270.00	2800.00	-909.70	0.00	0.00	0.00	0.00
Base Salt Hold 7"inc	2900.00	0.00	270.00	2900.00	-809.70	0.00	0.00	0.00	0.00
	3000.00	0.00	270.00	3000.00	-709.70	0.00	0.00	0.00	0.00
	3100.00	2.00	270.00	3099.98	-609.72	0.24	0.00	-1.75	2.00
	3200.00	4.00	270.00	3199.84	-509.86	0.96	0.00	-6.98	2.00
	3300.00	6.00	270.00	3299.45	-410.25	2.16	0.00	-15.69	2.00
	3300.55	6.01	270.00	3300.00	-409.70	2.16	0.00	-15.75	2.00
	3350.00	7.00	270.00	3349.13	-360.57	2.93	0.00	-21.35	2.00
	3400.00	7.00	270.00	3398.76	-310.94	3.77	0.00	-27.45	0.00
	3500.00	7.00	270.00	3498.01	-211.69	5.44	0.00	-39.63	0.00
	3502.00	7.00	270.00	3500.00	-209.70	5.48	0.00	-39.88	0.00
Drop to Vertical	3600.00	5.04	270.00	3597.45	-112.25	6.89	0.00	-50.16	2.00
	3700.00	3.04	270.00	3697.20	-12.50	7.86	0.00	-57.20	2.00
	3752.85	1.98	270.00	3750.00	40.30	8.17	0.00	-59.52	2.00
	3800.00	1.04	270.00	3797.13	87.43	8.35	0.00	-60.76	2.00
	3852.00	0.00	270.00	3849.13	139.43	8.41	0.00	-61.23	2.00
	3900.00	0.00	270.00	3897.13	187.43	8.41	0.00	-61.23	0.00
	4000.00	0.00	270.00	3997.13	287.43	8.41	0.00	-61.23	0.00
	4100.00	0.00	270.00	4097.13	387.43	8.41	0.00	-61.23	0.00
	4200.00	0.00	270.00	4197.13	487.43	8.41	0.00	-61.23	0.00
	4300.00	0.00	270.00	4297.13	587.43	8.41	0.00	-61.23	0.00
Seven Rivers Hold Vertical	4400.00	0.00	270.00	4397.13	687.43	8.41	0.00	-61.23	0.00
	4500.00	0.00	270.00	4497.13	787.43	8.41	0.00	-61.23	0.00
	4600.00	0.00	270.00	4597.13	887.43	8.41	0.00	-61.23	0.00
	4700.00	0.00	270.00	4697.13	987.43	8.41	0.00	-61.23	0.00
	4800.00	0.00	270.00	4797.13	1087.43	8.41	0.00	-61.23	0.00
	4900.00	0.00	270.00	4897.13	1187.43	8.41	0.00	-61.23	0.00
	5000.00	0.00	270.00	4997.13	1287.43	8.41	0.00	-61.23	0.00
	5100.00	0.00	270.00	5097.13	1387.43	8.41	0.00	-61.23	0.00
	5200.00	0.00	270.00	5197.13	1487.43	8.41	0.00	-61.23	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*/100ft)
	5300.00	0.00	270.00	5297.13	1587.43	8.41	0.00	-61.23	0.00
	5400.00	0.00	270.00	5397.13	1687.43	8.41	0.00	-61.23	0.00
	5500.00	0.00	270.00	5497.13	1787.43	8.41	0.00	-61.23	0.00
	5600.00	0.00	270.00	5597.13	1887.43	8.41	0.00	-61.23	0.00
	5700.00	0.00	270.00	5697.13	1987.43	8.41	0.00	-61.23	0.00
Delaware Sand	5702.87	0.00	270.00	5700.00	1990.30	8.41	0.00	-61.23	0.00
	5800.00	0.00	270.00	5797.13	2087.43	8.41	0.00	-61.23	0.00
	5900.00	0.00	270.00	5897.13	2187.43	8.41	0.00	-61.23	0.00
	6000.00	0.00	270.00	5997.13	2287.43	8.41	0.00	-61.23	0.00
	6100.00	0.00	270.00	6097.13	2387.43	8.41	0.00	-61.23	0.00
	6200.00	0.00	270.00	6197.13	2487.43	8.41	0.00	-61.23	0.00
	6300.00	0.00	270.00	6297.13	2587.43	8.41	0.00	-61.23	0.00
	6400.00	0.00	270.00	6397.13	2687.43	8.41	0.00	-61.23	0.00
	6500.00	0.00	270.00	6497.13	2787.43	8.41	0.00	-61.23	0.00
	6600.00	0.00	270.00	6597.13	2887.43	8.41	0.00	-61.23	0.00
	6700.00	0.00	270.00	6697.13	2987.43	8.41	0.00	-61.23	0.00
	6800.00	0.00	270.00	6797.13	3087.43	8.41	0.00	-61.23	0.00
	6900.00	0.00	270.00	6897.13	3187.43	8.41	0.00	-61.23	0.00
	7000.00	0.00	270.00	6997.13	3287.43	8.41	0.00	-61.23	0.00
	7100.00	0.00	270.00	7097.13	3387.43	8.41	0.00	-61.23	0.00
	7200.00	0.00	270.00	7197.13	3487.43	8.41	0.00	-61.23	0.00
	7300.00	0.00	270.00	7297.13	3587.43	8.41	0.00	-61.23	0.00
	7400.00	0.00	270.00	7397.13	3687.43	8.41	0.00	-61.23	0.00
	7500.00	0.00	270.00	7497.13	3787.43	8.41	0.00	-61.23	0.00
	7600.00	0.00	270.00	7597.13	3887.43	8.41	0.00	-61.23	0.00
	7700.00	0.00	270.00	7697.13	3987.43	8.41	0.00	-61.23	0.00
	7800.00	0.00	270.00	7797.13	4087.43	8.41	0.00	-61.23	0.00
	7900.00	0.00	270.00	7897.13	4187.43	8.41	0.00	-61.23	0.00
	8000.00	0.00	270.00	7997.13	4287.43	8.41	0.00	-61.23	0.00
	8100.00	0.00	270.00	8097.13	4387.43	8.41	0.00	-61.23	0.00
	8200.00	0.00	270.00	8197.13	4487.43	8.41	0.00	-61.23	0.00
	8300.00	0.00	270.00	8297.13	4587.43	8.41	0.00	-61.23	0.00
	8400.00	0.00	270.00	8397.13	4687.43	8.41	0.00	-61.23	0.00
	8500.00	0.00	270.00	8497.13	4787.43	8.41	0.00	-61.23	0.00
	8600.00	0.00	270.00	8597.13	4887.43	8.41	0.00	-61.23	0.00
1st Bone Spring Lm.	8602.87	0.00	270.00	8600.00	4890.30	8.41	0.00	-61.23	0.00
	8700.00	0.00	270.00	8697.13	4987.43	8.41	0.00	-61.23	0.00
	8800.00	0.00	270.00	8797.13	5087.43	8.41	0.00	-61.23	0.00
	8900.00	0.00	270.00	8897.13	5187.43	8.41	0.00	-61.23	0.00
	9000.00	0.00	270.00	8997.13	5287.43	8.41	0.00	-61.23	0.00
	9100.00	0.00	270.00	9097.13	5387.43	8.41	0.00	-61.23	0.00
	9200.00	0.00	270.00	9197.13	5487.43	8.41	0.00	-61.23	0.00
	9300.00	0.00	270.00	9297.13	5587.43	8.41	0.00	-61.23	0.00
	9400.00	0.00	270.00	9397.13	5687.43	8.41	0.00	-61.23	0.00
	9500.00	0.00	270.00	9497.13	5787.43	8.41	0.00	-61.23	0.00
	9600.00	0.00	270.00	9597.13	5887.43	8.41	0.00	-61.23	0.00
1st Bone Spring Sd.	9682.87	0.00	270.00	9680.00	5970.30	8.41	0.00	-61.23	0.00
	9700.00	0.00	270.00	9697.13	5987.43	8.41	0.00	-61.23	0.00
	9800.00	0.00	270.00	9797.13	6087.43	8.41	0.00	-61.23	0.00
	9900.00	0.00	270.00	9897.13	6187.43	8.41	0.00	-61.23	0.00
2nd Bone Spring Lm.	9927.87	0.00	270.00	9925.00	6215.30	8.41	0.00	-61.23	0.00
	10000.00	0.00	270.00	9997.13	6287.43	8.41	0.00	-61.23	0.00
	10100.00	0.00	270.00	10097.13	6387.43	8.41	0.00	-61.23	0.00
	10200.00	0.00	270.00	10197.13	6487.43	8.41	0.00	-61.23	0.00
2nd Bone Spring Sd.	10202.87	0.00	270.00	10200.00	6490.30	8.41	0.00	-61.23	0.00
	10300.00	0.00	270.00	10297.13	6587.43	8.41	0.00	-61.23	0.00
KOP Build 8"/100' DLS	10360.92	0.00	270.00	10358.05	6648.35	8.41	0.00	-61.23	0.00
	10400.00	3.13	315.81	10397.11	6687.41	9.27	0.76	-61.97	8.00
	10500.00	11.13	315.81	10496.25	6786.55	19.26	9.65	-70.61	8.00
	10600.00	19.13	315.81	10592.71	6883.01	40.27	28.35	-88.79	8.00
	10700.00	27.13	315.81	10684.60	6974.90	71.90	56.49	-116.14	8.00
3rd Bone Spring Lm.	10700.45	27.16	315.81	10685.00	6975.30	72.07	56.63	-116.29	8.00
	10800.00	35.13	315.81	10770.13	7060.43	113.53	93.52	-152.15	8.00
	10900.00	43.13	315.81	10847.65	7137.95	164.35	138.73	-196.10	8.00
	11000.00	51.13	315.81	10915.63	7205.93	223.37	191.24	-247.14	8.00
	11100.00	59.13	315.81	10972.76	7263.06	289.44	250.02	-304.28	8.00
3rd Bone Spring Sd.	11156.92	63.68	315.81	11000.00	7290.30	329.71	285.84	-339.10	8.00
	11200.00	67.13	315.81	11017.93	7308.23	361.27	313.92	-366.40	8.00
	11300.00	75.13	315.81	11050.25	7340.55	437.47	381.72	-432.30	8.00
Turn 8"/100' DLS	11360.92	80.00	315.81	11063.37	7353.67	485.41	424.36	-473.76	8.00
	11400.00	80.56	318.93	11069.96	7360.26	517.06	452.70	-499.84	8.00
	11500.00	82.13	326.87	11085.03	7375.33	603.28	531.48	-559.42	8.00
	11600.00	83.84	334.74	11097.27	7387.57	695.68	618.06	-607.78	8.00
	11700.00	85.66	342.56	11106.43	7396.73	792.45	710.73	-643.99	8.00
	11800.00	87.57	350.35	11112.34	7402.64	891.71	807.70	-667.35	8.00
	11900.00	89.52	358.11	11114.88	7405.18	991.52	907.08	-677.39	8.00
Landing Point	11924.43	90.00	0.00	11114.98	7405.28	1015.78	931.51	-677.80	8.00
	12000.00	90.00	0.00	11114.99	7405.29	1090.63	1007.08	-677.79	0.00
	12100.00	90.00	0.00	11114.99	7405.29	1189.68	1107.08	-677.79	0.00
	12200.00	90.00	0.00	11114.99	7405.29	1288.73	1207.08	-677.78	0.00
	12300.00	90.00	0.00	11114.99	7405.29	1387.78	1307.08	-677.78	0.00
	12400.00	90.00	0.00	11114.99	7405.29	1486.83	1407.08	-677.77	0.00

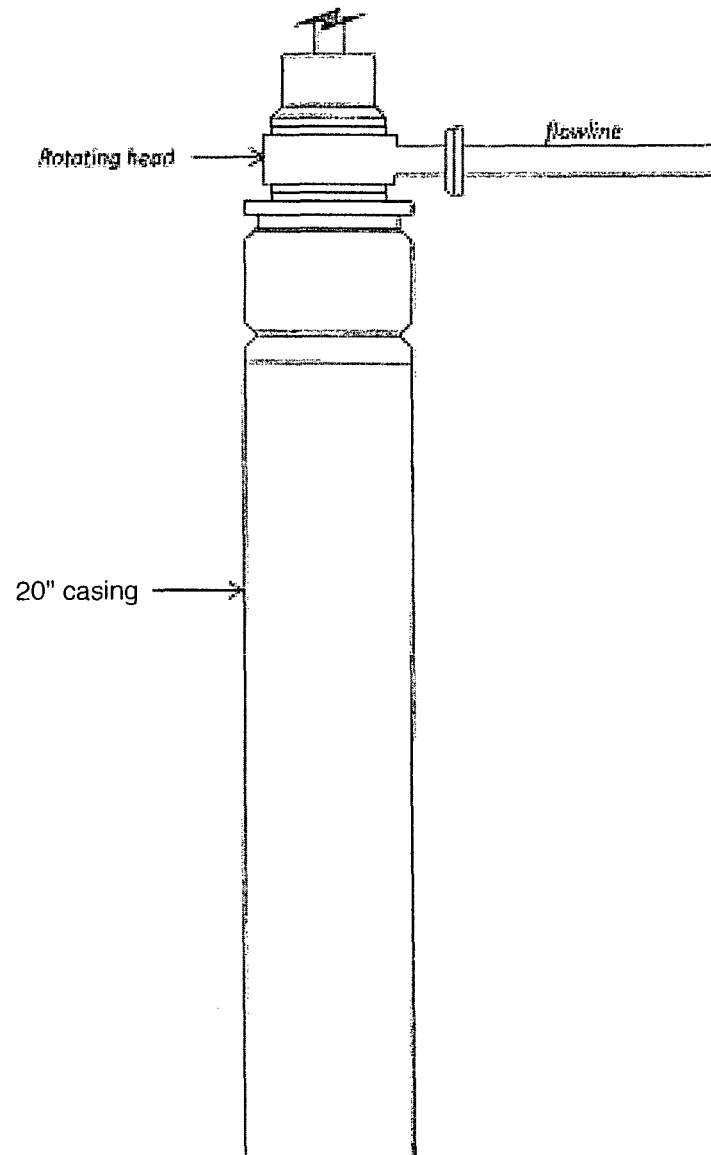
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
	12500.00	90.00	0.00	11114.99	7405.29	1585.89	1507.08	-677.77	0.00
	12600.00	90.00	0.00	11114.99	7405.29	1684.94	1607.08	-677.77	0.00
	12700.00	90.00	0.00	11114.99	7405.29	1783.99	1707.08	-677.76	0.00
	12800.00	90.00	0.00	11114.99	7405.29	1883.04	1807.08	-677.76	0.00
	12900.00	90.00	0.00	11114.99	7405.29	1982.09	1907.08	-677.75	0.00
	13000.00	90.00	0.00	11114.99	7405.29	2081.14	2007.08	-677.75	0.00
	13100.00	90.00	0.00	11114.99	7405.29	2180.20	2107.08	-677.74	0.00
	13200.00	90.00	0.00	11114.99	7405.29	2279.25	2207.08	-677.74	0.00
	13300.00	90.00	0.00	11114.99	7405.29	2378.30	2307.08	-677.73	0.00
	13400.00	90.00	0.00	11114.99	7405.29	2477.35	2407.08	-677.73	0.00
	13500.00	90.00	0.00	11114.99	7405.29	2576.40	2507.08	-677.72	0.00
	13600.00	90.00	0.00	11114.99	7405.29	2675.45	2607.08	-677.72	0.00
	13700.00	90.00	0.00	11114.99	7405.29	2774.51	2707.08	-677.71	0.00
	13800.00	90.00	0.00	11114.99	7405.29	2873.56	2807.08	-677.71	0.00
	13900.00	90.00	0.00	11114.99	7405.29	2972.61	2907.08	-677.71	0.00
	14000.00	90.00	0.00	11114.99	7405.29	3071.66	3007.08	-677.70	0.00
	14100.00	90.00	0.00	11114.99	7405.29	3170.71	3107.08	-677.70	0.00
	14200.00	90.00	0.00	11114.99	7405.29	3269.76	3207.08	-677.69	0.00
	14300.00	90.00	0.00	11114.99	7405.29	3368.82	3307.08	-677.69	0.00
	14400.00	90.00	0.00	11114.99	7405.29	3467.87	3407.08	-677.68	0.00
	14500.00	90.00	0.00	11115.00	7405.30	3566.92	3507.08	-677.68	0.00
	14600.00	90.00	0.00	11115.00	7405.30	3665.97	3607.08	-677.67	0.00
	14700.00	90.00	0.00	11115.00	7405.30	3765.02	3707.08	-677.67	0.00
	14800.00	90.00	0.00	11115.00	7405.30	3864.07	3807.08	-677.66	0.00
	14900.00	90.00	0.00	11115.00	7405.30	3963.13	3907.08	-677.66	0.00
	15000.00	90.00	0.00	11115.00	7405.30	4062.18	4007.08	-677.66	0.00
	15100.00	90.00	0.00	11115.00	7405.30	4161.23	4107.08	-677.65	0.00
	15200.00	90.00	0.00	11115.00	7405.30	4260.28	4207.08	-677.65	0.00
	15300.00	90.00	0.00	11115.00	7405.30	4359.33	4307.08	-677.64	0.00
	15400.00	90.00	0.00	11115.00	7405.30	4458.38	4407.08	-677.64	0.00
	15500.00	90.00	0.00	11115.00	7405.30	4557.44	4507.08	-677.63	0.00
	15600.00	90.00	0.00	11115.00	7405.30	4656.49	4607.08	-677.63	0.00
	15700.00	90.00	0.00	11115.00	7405.30	4755.54	4707.08	-677.62	0.00
Diamondback El Papa Section 29 1H - PBHL	15736.37	90.00	0.00	11115.00	7405.30	4791.57	4743.45	-677.62	0.00

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7855 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type
	0.000	15736.374	1/100.000	30.000	30.000	SLB_MWD-STD

Diverter System



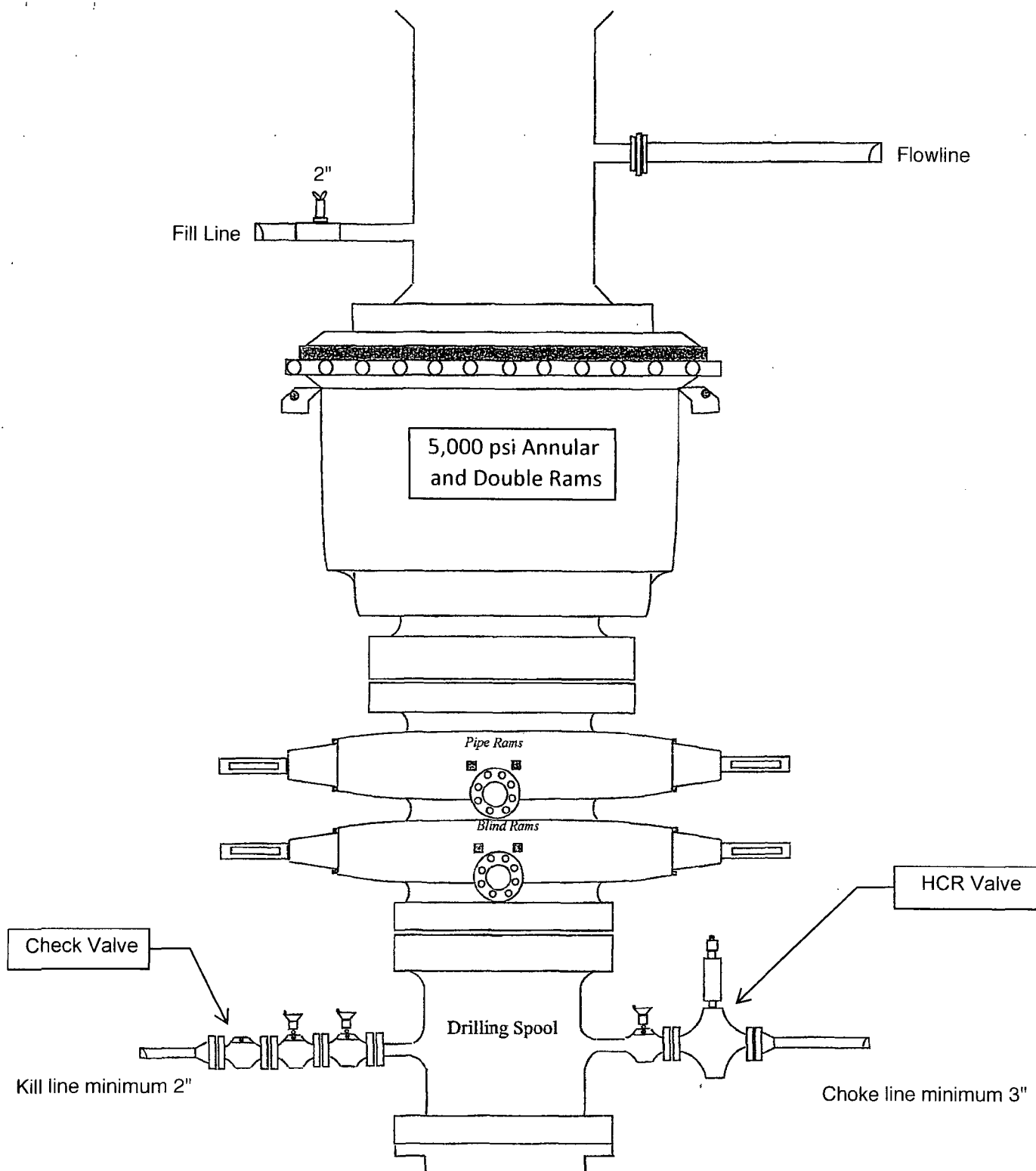
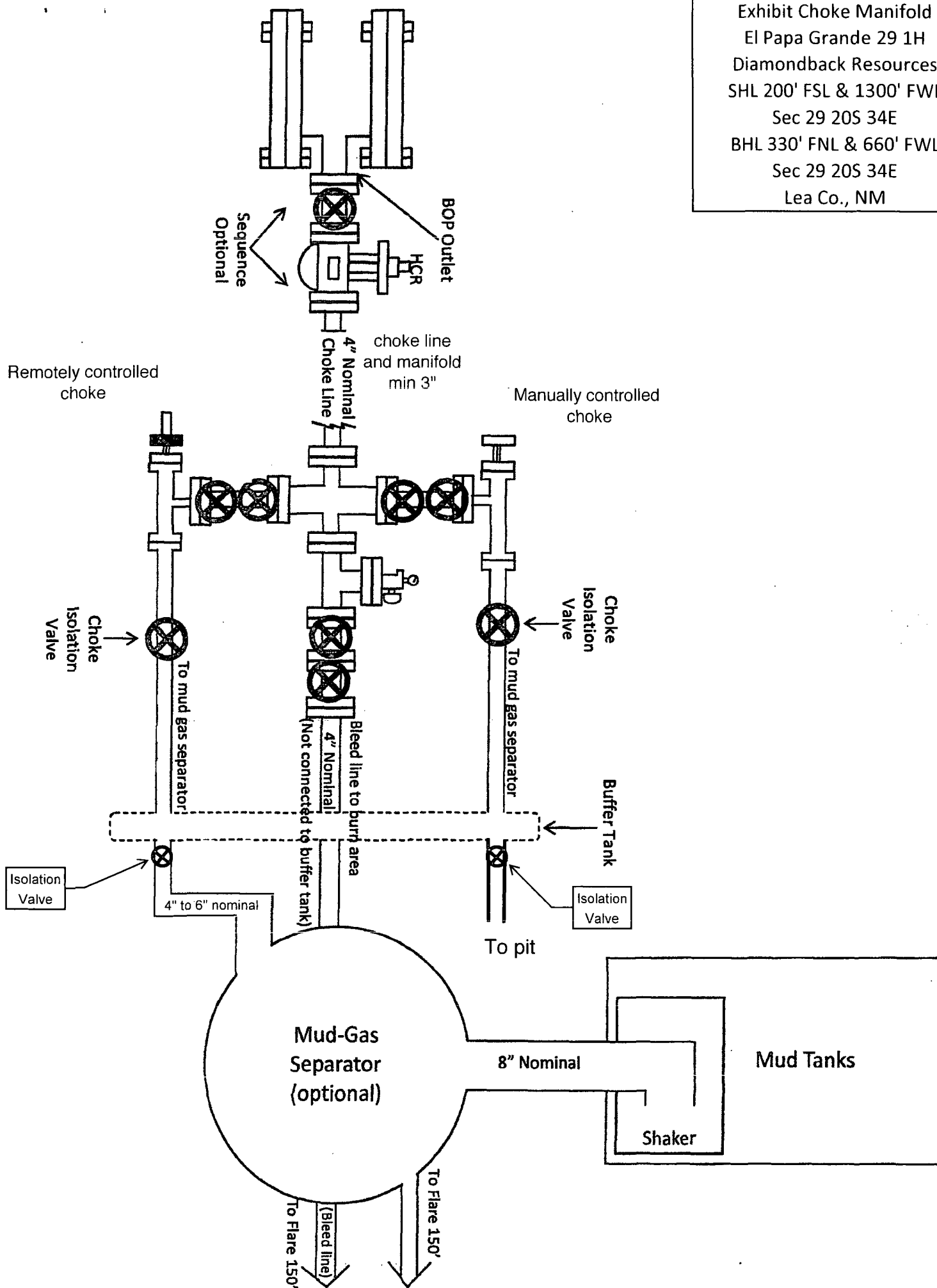


Exhibit BOPE - 5,000 psi BOP Stack
 El Papa Grande 29 1H
 Diamondback Resources
 SHL 200' FSL & 1300' FWL
 Sec 29 20S 34E
 BHL 330' FNL & 660' FWL
 Sec 29 20S 34E
 Lea Co., NM

Exhibit Choke Manifold
 El Papa Grande 29 1H
 Diamondback Resources
 SHL 200' FSL & 1300' FWL
 Sec 29 20S 34E
 BHL 330' FNL & 660' FWL
 Sec 29 20S 34E
 Lea Co., NM



Diamondback Resources

El Papa Grande 1H

Closed Loop System

Operating and Maintenance Procedures

and

Closure Plan

Operating Procedures

Diamondback Resources will utilize a closed loop system to collect and process drilling fluids and solids generated during drilling operations on the El Papa Grande 1H. 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 stored for utilization on subsequent wells. Surplus fluids will be transported to an approved Disposal Site.

Solids will be separated from the drilling fluids and transferred to transport containers. The containers will be trucked to an approved Disposal Site for solids disposal.

No hazardous materials will be discharged into the Closed Loop System.

Closure Plan

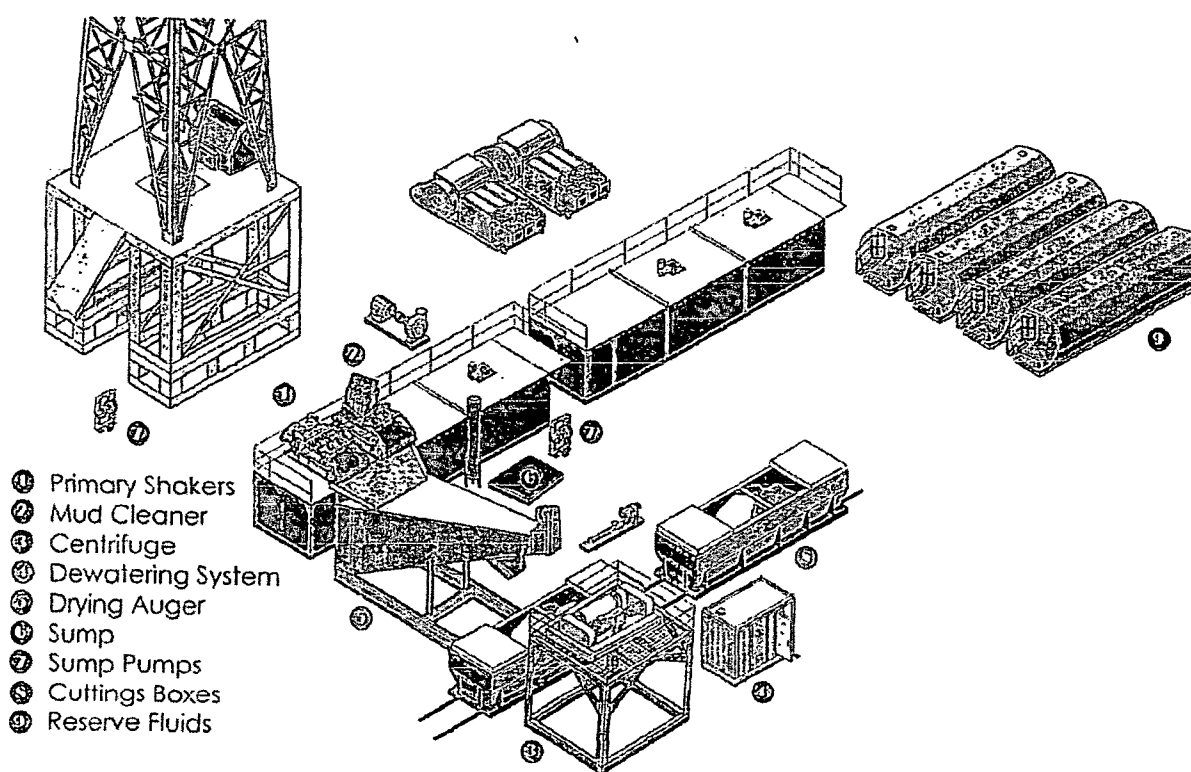
Upon the conclusion of drilling operations, the closed loop system will be removed from the well site. Upon completion of testing and facility installation operations, the location pad size will be reduced to the minimum allowed for safe and efficient operation. Stockpiled surface materials will be utilized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

FIGURE 1

CLOSED LOOP SYSTEM

Diamondback Resources

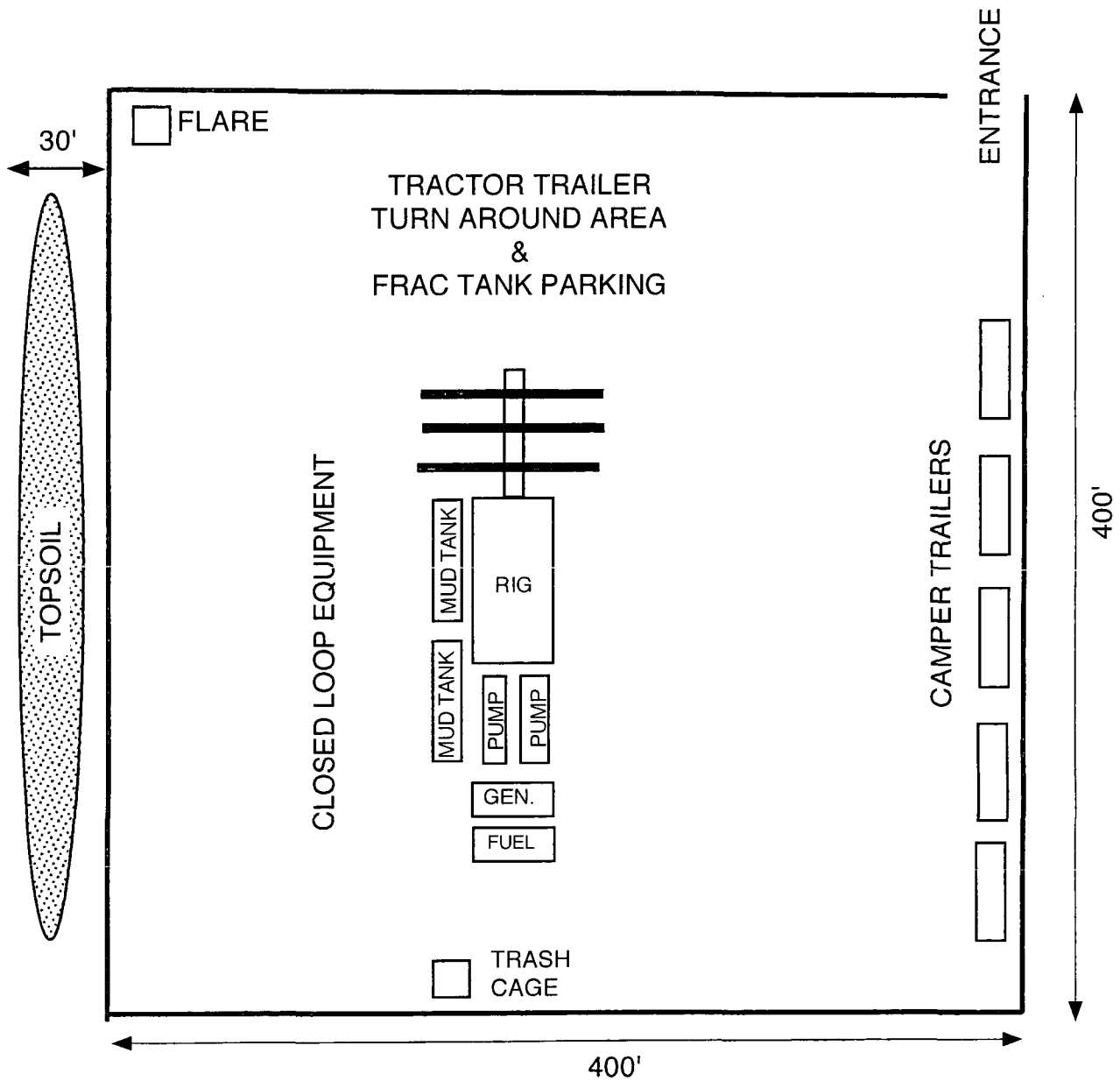
El Papa Grande 29 1H



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

Diamondback's
El Papa Grande 29 1H

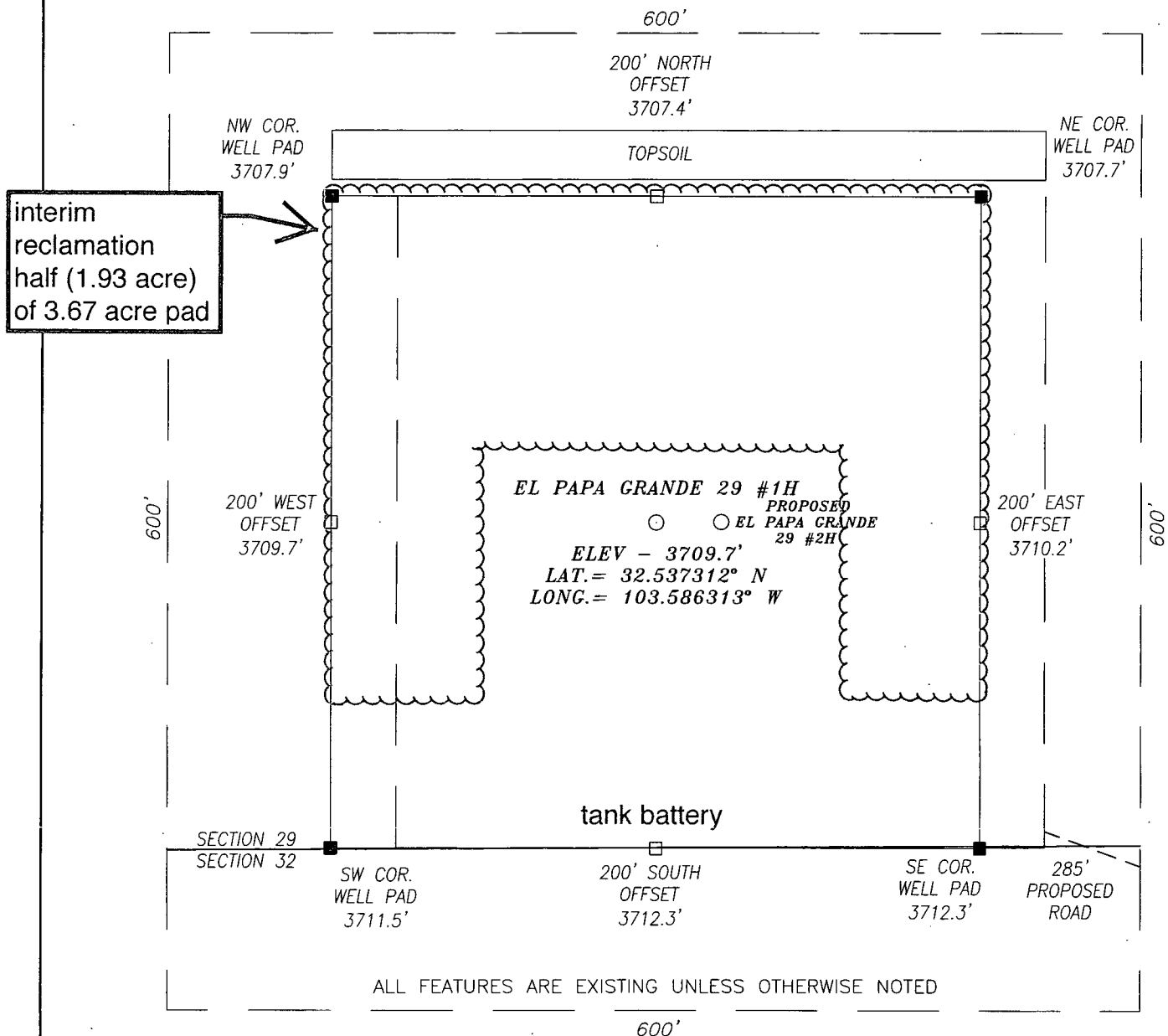
NORTH 
1" = 75'



SECTION 29, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,

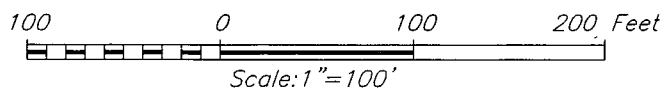
LEA COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION:

HEADING EAST ON HWY 176 TURN LEFT (NORTH) APPROX. 0.1 MILE PAST MILE MARKER 9 ONTO A CALICHE ROAD AND GO APPROX. 1.0 MILE; THEN TURN LEFT (WEST) AND GO APPROX. 300 FEET TO EXISTING GOOSE ST. #1H WELL PAD; GO TO NORTHWEST PAD CORNER THEN PROPOSED WELL IS APPROX. 580 FEET NORTHWEST.



HARCROW SURVEYING, LLC

1107 WATSON, ARTESIA, N.M. 88210
PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



DIAMONDBACK RESOURCES, LLC

EL PAPA GRANDE 29 #1H WELL
LOCATED 200 FEET FROM THE SOUTH LINE
AND 1300 FEET FROM THE WEST LINE OF SECTION 29,
TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: 08/06/2013

PAGE: 1 OF 1

DRAFTING DATE: 08/07/2013

APPROVED BY: CH

DRAWN BY: TL

FILE: 13-516