

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2008

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address OGX RESOURCES, LLC. P. O. BOX 2064 MIDLAND, TEXAS 79702 ✓		² OGRID Number 217955 ✓
³ Property Code 38527 ✓	⁴ Property Name DIAMONDBACK "22" STATE COM. ✓	⁵ Well No. 1H ✓
⁶ Proposed Pool 1 Hay Hollow BONE-SPRING		⁷ Proposed Pool 2

⁷ Surface Location									
⁸ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	22	26S	28E		480'	North	1960'	East	Eddy ✓

⁸ Proposed Bottom Hole Location: If Different From Surface									
⁹ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	22	26S	R28E		330'	South	2125'	East	Eddy

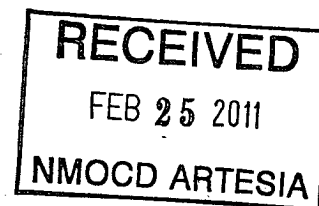
¹¹ Work Type Code N ✓	¹² Well Type Code O ✓	¹³ Cable/Rotary ROTARY ✓	¹⁴ Lease Type Code S ✓	¹⁵ Ground Level Elevation 2981' ✓
¹⁶ Multiple NO ✓	¹⁷ Proposed Depth MD-11,092 TVD6800'	¹⁸ Formation BONE SPRING	¹⁹ Contractor SILVER OAK DRLG.	²⁰ Spud Date WHEN APPROVED

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48#	425'	425 Sx.	Surface
11"	8 5/8"	32#	2525'	500 Sx.	Surface
7 7/8"	5 1/2"	17#	11,092'	1300 Sx.	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SEE ATTACHED SHEET FOR DETAIL



²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Joe T. Janica

Printed name: Joe T. Janica

Title: Permit Eng.

E-mail Address: joejanica@valornet.com

Date: 02/25/11

Phone: 575-391-8503

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: 3/9/2011

Expiration Date: 3/9/2013

Conditions of Approval Attached ☐

NG

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 425'. Run and set 425' of 13 3/8" 48# H-40 ST&C casing. Cement with 225 Sx. of 35/65/6 Class "C" Premium Plus POZ cement + 6% Bentonite, + 5% Salt, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.0. Tail in with 200 Sx. of Premium Plus Class "C" cement + 2% CaCl Yield 1.34. Circulate cement to surface.
3. Drill 11" hole to 2525'. Run and set 2525' of 8 5/8" 32# J-55 ST&C casing. Cement with 300 Sx. of 35/65 Premium Plus Class "C" POZ cement + 4% Bentonite, + 5% Salt, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02, tail in with 200 Sx. of Class "C" cement + 2% CaCl, Yield 1.34, circulate cement to surface.
4. Drill 7 7/8" hole to 11,092'. Run and set 11,092' of 5½" casing as follows. 4692' of 5½" 17# BT&C P-110, 6400' of 5½" 17# LT&C P-110 casing. Cement with 400 Sx. of Premium Plus Class "C" POZ cement + 4% Bentonite, + 5% Salt, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.02, tail in with 900 Sx. of Premium Plus Class "C" cement + 2% CaCl. Yield 1.34, circulate cement to surface.

**Diamondback 22 State Com No.1H
Delaware River South (Bone Spring)Field
Eddy County, New Mexico
Drilling Procedure
Feb 2011**

General Information

Lease:	Diamondback 22 State Com	AFE BCP:	\$
Well No.:	1H	AFE ACP:	
Field:	Delaware River Bone Spring Sth	AFE Total:	
County:	Eddy	AFE NO:	
State:	New Mexico	API No.:	30-015-XXXXX
Section:	22	Permit Date:	
Township:	26S	Permit TVD:	7,500'
Range:	28E	Proposed MD:	11,092'
Surface Section Ties:	480' FNL & 1960' FEL	Drilling Days:	23
BHL (target)	330' FSL & 2125' FEL		
Ground Level:	2981'	KB:	2998'
Latitude:	32°02'01.81" N	Longitude	104°04'23.21" W

Well Objectives

The primary objective of this well is to evaluate potential within the Delaware intervals and taken horizontal in the Upper Bone Spring Shale. The well will be drilled to ~ 6,400'; logged and taken horizontal.

Directions To Well

From US Hwy 285 - South on Mile Marker 1 for 0.4 mi - West 1.3 mi to pipeline ROW - North 1.4 mi to location.

Special Drilling Considerations

1. No hunting for game is permitted. No fire arms are to be taken to the location. Keep trash picked up on location and road.
2. Do not run hard-banded or hard-faced drill pipe in casing without consulting OGX.
3. Cement must be circulated on surface and intermediate. If cement does not circulate, run a temperature survey and contact the BLM and Operations Engineer for remedial instructions.
4. BOP equipment will be NU on the 13-3/8" surface casing. All safety and well control equipment should be rigged up and operational prior to drilling out the 13-3/8" casing shoe.

DRILLING PROGRAM**Geologic Name of Surface Formation:**

Permian

FORMATION TOPS / ANTICIPATED FRESH WATER, OIL, or GAS / PRESSURES

<u>Formation</u>	<u>Depth</u>	<u>Frm Pres</u>	<u>Remarks</u>
Basal Anhydrite	2420'	10 ppge	Drig fluid must be saturated salt water
Lamar	2600'	8.4 ppge	Base of Salt
Bell Canyon	2630'	8.4 ppge	Oil / Gas / Formation water /Poss.H ₂ S
Cherry Canyon	3500'	8.4 ppge	Oil / Gas / Formation water
Brushy Canyon	4700'	8.4 ppge	Oil / Gas / Formation water
Bone Spring	6350'	8.4 ppge	Oil / Gas / Formation water

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 425' and circulating cement back to surface. Potash/ fresh water sands will be protected by setting 8 5/8" casing at 2525' and circulating cement to the surface. The hydrocarbon producing intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement 300' above the base of the 8 5/8" casing.

CASING PROGRAM:

HOLE SIZE	DEPTH	OD Csg	WEIGHT	COLLAR	GRADE	NEW/USED
17 1/2"	0-425'	13 3/8"	48	STC	H40	New
11"	0-2525'	8 5/8"	32	STC	J55	New
7 7/8"	0-6400'	5 1/2"	17	LTC	P110	New
7 7/8"	6400-11092'	5 1/2"	17	BTC	P110	New

Casing weight and grades are minimum – higher weights & better grades may be substituted

(8 5/8" 32# will be special drift to 7.921)
(5 1/2" BTC will be run thru the curve & Lateral)

DEPTH	OD Csg	WEIGHT	factors: Burst / Collapse / Tension		
0-450'	13 3/8"	48	1.65	1.52	12+
0-2525'	8 5/8"	32	1.27	1.54	3.62
0-11092'	5 1/2"	17	1.85	1.81	2.24

** The Intermediate hole will never be evacuated**

(51/2 Burst & Collapse Calculated @ 7200' TVD)

CEMENT PROGRAM:**13 3/8" Surface**

Spacer 50 bbls of fresh water
 Slurry Lead: 35:65:6 – Poz: Prem Plus C + 6% Bentonite + 5% salt + 5% MPA-5 + .7% Sodium Metasilicate + 5 lbs LCM + 97.9 fresh water
 Tail: Premium Plus C + 2% CaCl₂ + 56.4% Fresh Water

Cement Properties	Lead	Tail
Est Volume (sacks)	225	200
Density (ppg)	12.80	14.80
Yield (ft ³ /sx)	2.00	1.34
Mix Water, gps	10.21	6.36
Thickening Time, hrs:min		~3:30
Free Water, %		0
Fluid Loss, cc's		~850
Top of Cement	surface	

8 5/8" Intermediate

Spacer 30 bbls of fresh water
 Lead 35:65 – Poz: Prem Plus C + 4% Bentonite + 5% salt + 5% MPA-5 + .7% Sodium Metasilicate + 5 lbs LCM + 99.6% fresh water
 Tail C + 2% CaCl₂ + 56.4% fresh water

Cement Properties	Lead	Tail
Est Volume (sacks)	300	200
Density (ppg)	12.7	14.8
Yield (ft ³ /sx)	2.02	1.34
Mix Water, gps	10.39	6.36
Thickening Time, hrs:min	4:07	3:32
Free Water, %	2.0	0
Fluid Loss, cc's	~750	~600
Top of Cement	surface	

The above cement volumes will be revised pending fluid caliper measurements.

5 1/2" Production

Spacer30 bbls of fresh water
Lead 35:65 – Poz: Prem Plus C + 4% Bentonite + 5% salt + 5% MPA-5 + .7%
Sodium Metasilicate + 5 lbs LCM + 99.6% fresh water
TailC + 2% CaCl₂ + 56.4% fresh water

Cement Properties

	<u>Lead</u>	<u>Tail</u>
Est Volume (sacks)	400	900
Density (ppg)	12.7	14.8
Yield (ft ³ /sx)	2.02	1.34
Mix Water, gps	10.39	6.36
Thickening Time, hrs:min	4:07	3:32
Free Water, %	2.0	0
Fluid Loss, cc's	~750	~600
Top of Cement	surface	

The above cement volumes will be revised pending fluid and open hole caliper measurements.

Kick-Off plug in Pilot Hole for Horizontal

No Plug Required

MUD PROPERTIES SUMMARY:

Depth (feet)	Weight (ppg)	Viscosity (sec/1000cc)	Fluid Loss (cc/30min)	PV (cps)	YP (lb/100ft ²)	Mud Type
0' – 425' Set 13-3/8" Casing	8.6 – 8.8	36 – 38	N/C	6 – 10	6 – 20	Spud Mud
425' – 2,525' Set 8-5/8" Casing	10.0 – 10.1	29 – 30	N/C	0 – 1	0 – 1	Brine
2,525' – 6,400'	8.4 – 9.1	28 – 29	N/C	0 – 1	0 – 1	Fresh Water
6,400' – 11,092' MD Set 5-1/2"	8.4 – 9.10	34 – 36	12 – 15	4 – 8	4 – 8	Dynazan / Starch HB 411

Auxiliary Well Control & Monitoring Equipment:

A Kelly cock will be in the drill string at all times.

A full opening drill pipe stabbing valve having the appropriate connections will be on the floor at all times.

H₂S detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" csg is cemented.

LOGGING, CORING, AND TESTING

No logs at surface.

Mud loggers on below 13 3/8" casing shoe – no electric logs at intermediate depth

The Vertical @ KO pt. (Production) hole will be logged: Gyro (Thru DP) & GR / Dual Laterolog / Neutron-Density / Caliper

No DST's or pressure testing is anticipated.

The horizontal lateral will be mud logged and GR via MWD.

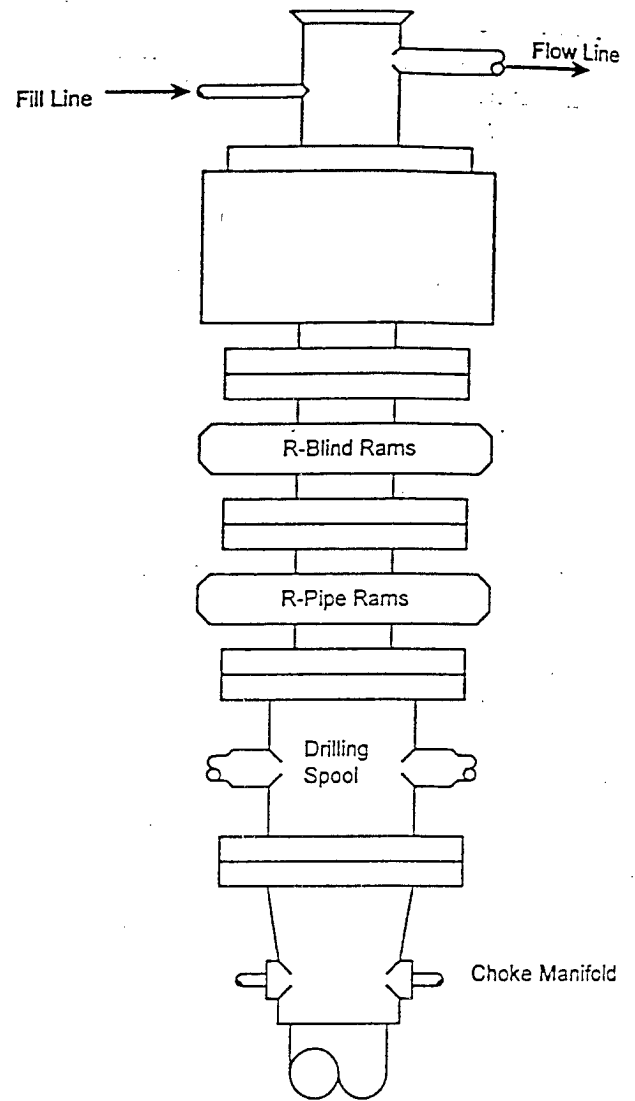
Potential Hazards:

No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No loss 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 is 3500 psi. & BHT is 125° F.

Anticipated Starting Date & Duration:

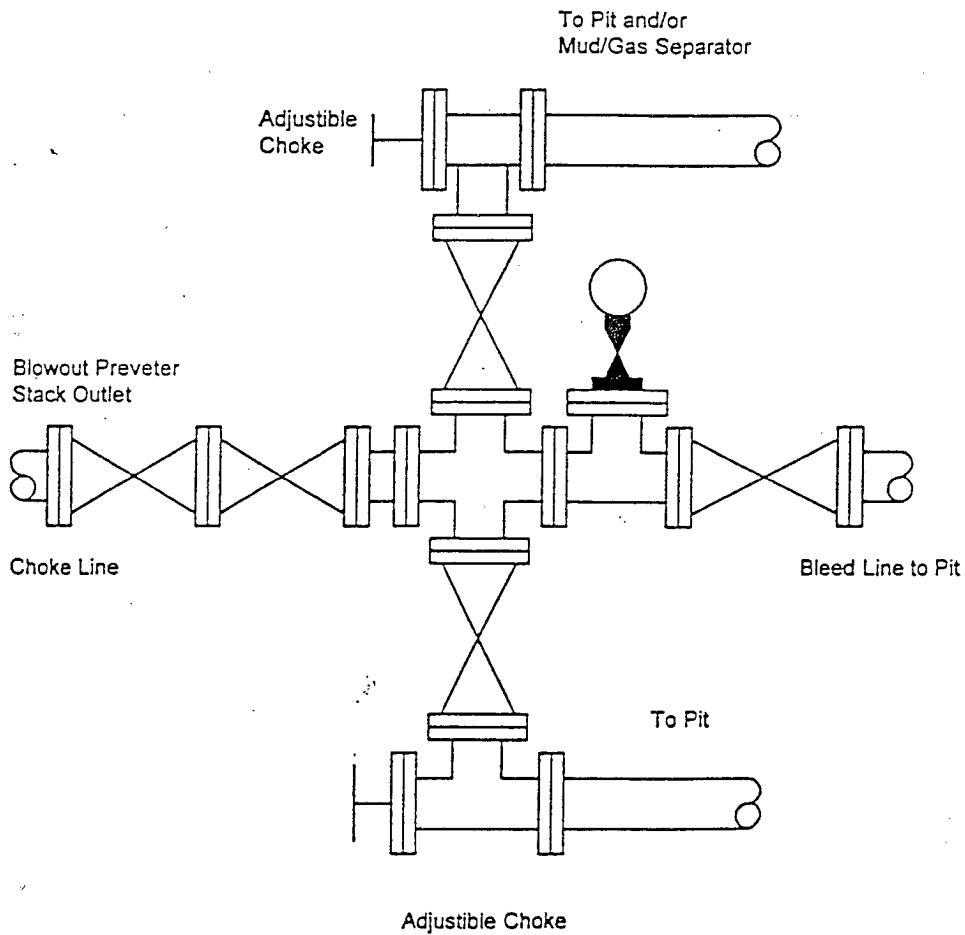
Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be ASAP subsequent to APD approval. Move in and drilling operations will take 23 days with an additional 20 days to complete the well and construct production facilities.

3000 PSI



Type 900 SERIES
3000 PSI WP

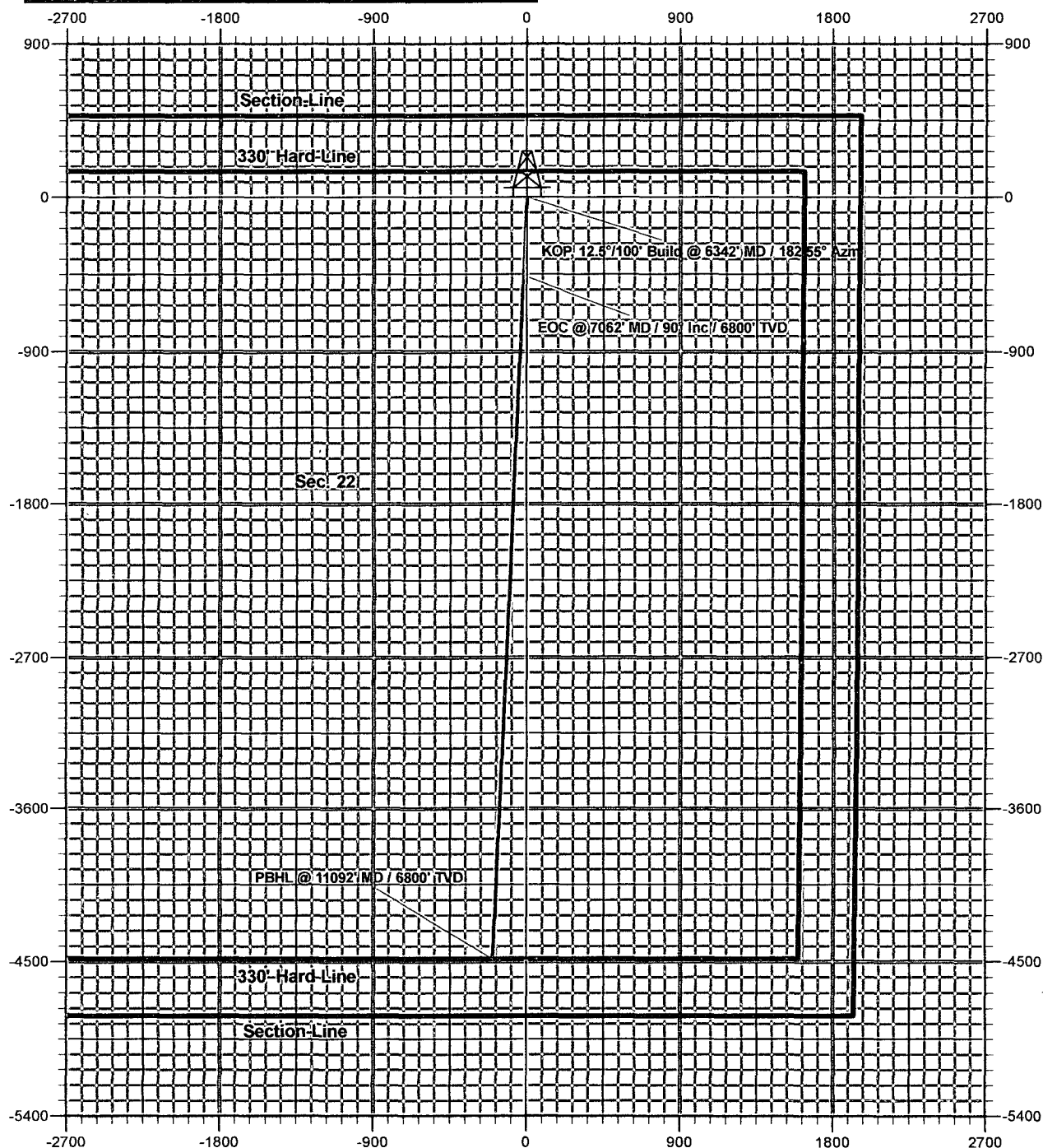
Choke Manifold Assembly for 5M WP System



OGX Resources, LLC



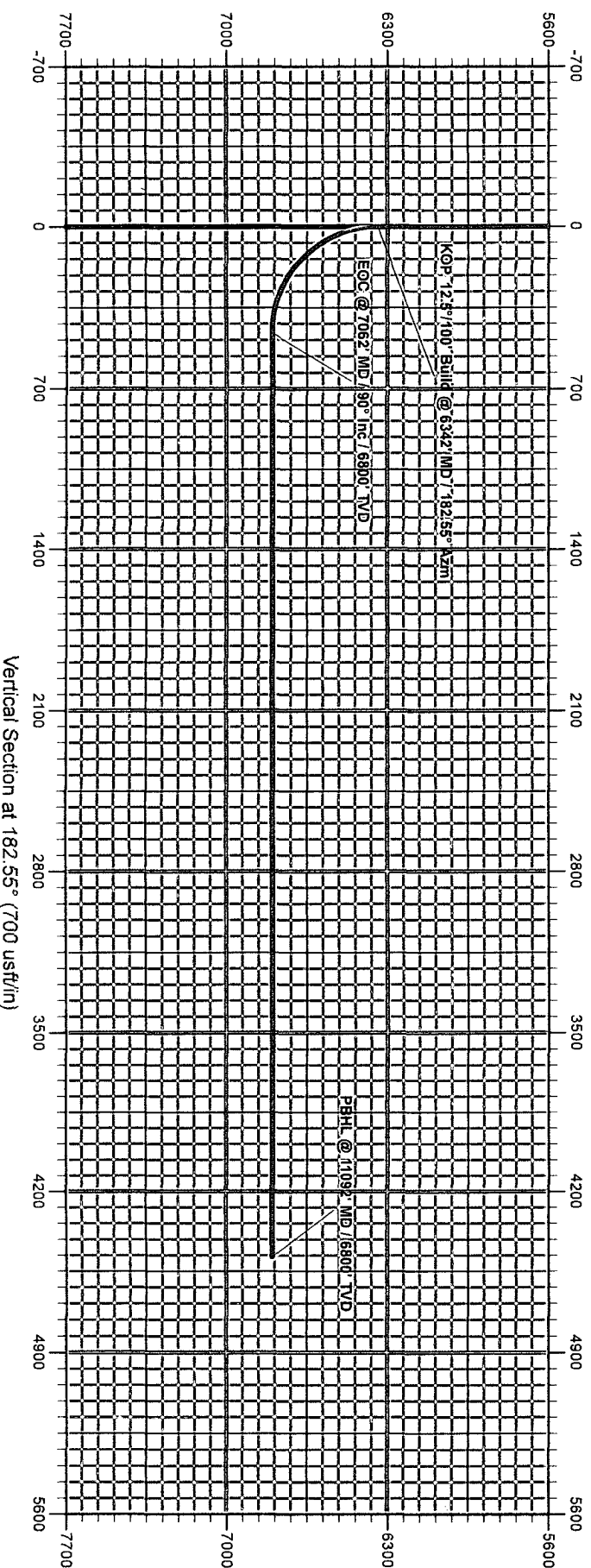
Eddy County, NM
Sec. 22, T26S, R28E
Diamondback "22" State Com #1H
Wellbore #1
Design #1



OGX Resources, LLC



Eddy County, NM
Sec. 22, T26S, R28E
Diamondback "22" State Com #1H
Design #1



OGX Resources, LLC

Eddy County, NM

Sec. 22, T26S, R28E

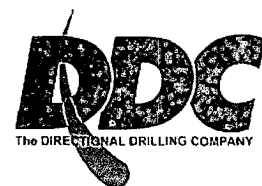
Diamondback "22" State Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

21 February, 2011



DDC

Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Diamondback "22" State Com #1H
Company:	OGX Resources, LLC	TVD Reference:	WELL @ 2998.0usft (Silver Oak #11)
Project:	Eddy County, NM	MD Reference:	WELL @ 2998.0usft (Silver Oak #11)
Site:	Sec. 22, T26S, R28E	North Reference:	Grid
Well:	Diamondback "22" State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Eddy County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec. 22, T26S, R28E				
Site Position:		Northing:	376,145.24 usft	Latitude:	32° 2' 1.811 N	
From:	Map	Easting:	621,973.39 usft	Longitude:	104° 4' 23.204 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.14 °

Well	Diamondback "22" State Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	376,145.24 usft	Latitude:	32° 2' 1.811 N
	+E/-W	0.0 usft	Easting:	621,973.39 usft	Longitude:	104° 4' 23.204 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	2,981.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/18/2011	7.84	59.93	48,480

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	182.55

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,341.6	0.00	0.00	6,341.6	0.0	0.0	0.00	0.00	0.00	0.00	
7,061.6	90.00	182.55	6,800.0	-457.9	-20.4	12.50	12.50	-24.65	182.55	
11,091.6	90.00	182.55	6,800.0	-4,483.9	-199.5	0.00	0.00	0.00	0.00	PBHL - Diamondba

DDC Well Planning Report



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Project:	Eddy County, NM	MD Reference:	WELL @ 2998.0usft (Silver Oak #11)
Site:	Sec. 22, T26S, R28E	North Reference:	Grid
Well:	Diamondback "22" State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
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500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
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3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
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4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

DDC Well Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Diamondback "22" State Com #1H
Company:	OGX Resources, LLC	TVD Reference:	WELL @ 2998.0usft (Silver Oak #11)
Project:	Eddy County, NM	MD Reference:	WELL @ 2998.0usft (Silver Oak #11)
Site:	Sec. 22, T26S, R28E	North Reference:	Grid
Well:	Diamondback "22" State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP, 12.5°/100' Build @ 6342' MD / 182.55° Azm									
6,341.6	0.00	0.00	6,341.6	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	7.30	182.55	6,399.8	-3.7	-0.2	3.7	12.50	12.50	0.00
6,500.0	19.80	182.55	6,496.9	-27.1	-1.2	27.1	12.50	12.50	0.00
6,600.0	32.30	182.55	6,586.5	-70.8	-3.2	70.9	12.50	12.50	0.00
6,700.0	44.80	182.55	6,664.6	-133.0	-5.9	133.1	12.50	12.50	0.00
6,800.0	57.30	182.55	6,727.3	-210.5	-9.4	210.7	12.50	12.50	0.00
6,900.0	69.80	182.55	6,771.8	-299.8	-13.3	300.1	12.50	12.50	0.00
7,000.0	82.30	182.55	6,795.8	-396.5	-17.6	396.9	12.50	12.50	0.00
EOC @ 7062' MD / 90° Inc / 6800' TVD									
7,061.6	90.00	182.55	6,800.0	-457.9	-20.4	458.4	12.50	12.50	0.00
7,100.0	90.00	182.55	6,800.0	-496.3	-22.1	496.7	0.00	0.00	0.00
7,200.0	90.00	182.55	6,800.0	-596.2	-26.5	596.7	0.00	0.00	0.00
7,300.0	90.00	182.55	6,800.0	-696.1	-31.0	696.7	0.00	0.00	0.00
7,400.0	90.00	182.55	6,800.0	-796.0	-35.4	796.7	0.00	0.00	0.00
7,500.0	90.00	182.55	6,800.0	-895.9	-39.9	896.7	0.00	0.00	0.00
7,600.0	90.00	182.55	6,800.0	-995.8	-44.3	996.7	0.00	0.00	0.00
7,700.0	90.00	182.55	6,800.0	-1,095.7	-48.8	1,096.7	0.00	0.00	0.00
7,800.0	90.00	182.55	6,800.0	-1,195.6	-53.2	1,196.7	0.00	0.00	0.00
7,900.0	90.00	182.55	6,800.0	-1,295.5	-57.7	1,296.7	0.00	0.00	0.00
8,000.0	90.00	182.55	6,800.0	-1,395.4	-62.1	1,396.7	0.00	0.00	0.00
8,100.0	90.00	182.55	6,800.0	-1,495.3	-66.5	1,496.7	0.00	0.00	0.00
8,200.0	90.00	182.55	6,800.0	-1,595.2	-71.0	1,596.7	0.00	0.00	0.00
8,300.0	90.00	182.55	6,800.0	-1,695.1	-75.4	1,696.7	0.00	0.00	0.00
8,400.0	90.00	182.55	6,800.0	-1,795.0	-79.9	1,796.7	0.00	0.00	0.00
8,500.0	90.00	182.55	6,800.0	-1,894.9	-84.3	1,896.7	0.00	0.00	0.00
8,600.0	90.00	182.55	6,800.0	-1,994.8	-88.8	1,996.7	0.00	0.00	0.00
8,700.0	90.00	182.55	6,800.0	-2,094.7	-93.2	2,096.7	0.00	0.00	0.00
8,800.0	90.00	182.55	6,800.0	-2,194.6	-97.7	2,196.7	0.00	0.00	0.00
8,900.0	90.00	182.55	6,800.0	-2,294.5	-102.1	2,296.7	0.00	0.00	0.00
9,000.0	90.00	182.55	6,800.0	-2,394.4	-106.6	2,396.7	0.00	0.00	0.00
9,100.0	90.00	182.55	6,800.0	-2,494.3	-111.0	2,496.7	0.00	0.00	0.00
9,200.0	90.00	182.55	6,800.0	-2,594.2	-115.4	2,596.7	0.00	0.00	0.00
9,300.0	90.00	182.55	6,800.0	-2,694.1	-119.9	2,696.7	0.00	0.00	0.00
9,400.0	90.00	182.55	6,800.0	-2,794.0	-124.3	2,796.7	0.00	0.00	0.00
9,500.0	90.00	182.55	6,800.0	-2,893.9	-128.8	2,896.7	0.00	0.00	0.00
9,600.0	90.00	182.55	6,800.0	-2,993.8	-133.2	2,996.7	0.00	0.00	0.00
9,700.0	90.00	182.55	6,800.0	-3,093.7	-137.7	3,096.7	0.00	0.00	0.00
9,800.0	90.00	182.55	6,800.0	-3,193.6	-142.1	3,196.7	0.00	0.00	0.00
9,900.0	90.00	182.55	6,800.0	-3,293.5	-146.6	3,296.7	0.00	0.00	0.00
10,000.0	90.00	182.55	6,800.0	-3,393.4	-151.0	3,396.7	0.00	0.00	0.00
10,100.0	90.00	182.55	6,800.0	-3,493.3	-155.5	3,496.7	0.00	0.00	0.00
10,200.0	90.00	182.55	6,800.0	-3,593.2	-159.9	3,596.7	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	90.00	182.55	6,800.0	-3,693.1	-164.4	3,696.7	0.00	0.00	0.00
10,400.0	90.00	182.55	6,800.0	-3,793.0	-168.8	3,796.7	0.00	0.00	0.00
10,500.0	90.00	182.55	6,800.0	-3,892.9	-173.2	3,896.7	0.00	0.00	0.00
10,600.0	90.00	182.55	6,800.0	-3,992.8	-177.7	3,996.7	0.00	0.00	0.00
10,700.0	90.00	182.55	6,800.0	-4,092.7	-182.1	4,096.7	0.00	0.00	0.00
10,800.0	90.00	182.55	6,800.0	-4,192.6	-186.6	4,196.7	0.00	0.00	0.00
10,900.0	90.00	182.55	6,800.0	-4,292.5	-191.0	4,296.7	0.00	0.00	0.00
11,000.0	90.00	182.55	6,800.0	-4,392.4	-195.5	4,396.7	0.00	0.00	0.00
PBHL @ 11092' MD / 6800' TVD									
11,091.6	90.00	182.55	6,800.0	-4,483.9	-199.5	4,488.3	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Diamondback	0.00	0.00	6,800.0	-4,483.9	-199.5	371,661.35	621,773.84	32° 1' 17.441 N	104° 4' 25.648 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,341.6	6,341.6	0.0	0.0	KOP, 12.5°/100' Build @ 6342' MD / 182.55° Azm
7,061.6	6,800.0	-457.9	-20.4	EOC @ 7062' MD / 90° Inc / 6800' TVD
11,091.6	6,800.0	-4,483.9	-199.5	PBHL @ 11092' MD / 6800' TVD