

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 87503

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

Operator Name and Address KEYSTONE PETROLEUM NM, LLC. 222 WEST COLINAS BLVD. SUITE 1570 EAST IRVING, TEXAS 75039		OGRID Number 269168 ✓
Property Code 38626 ✓	Property Name PALMILLO "14" STATE ✓	Well No. 1H ✓
Proposed Pool 1 (96413) PALMILLO -BONE SPRING SOUTHWEST		Proposed Pool 2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot 14n	Feet from the	North/South line	Feet from the	East/West line	County
L	14	19S	28E		2080'	SOUTH	330'	WEST	EDDY ✓

8 Proposed Bottom Hole Location-If Different From Surface

UL or lot no.	Section	Township	Range	Lot 14n	Feet from the	North/South line	Feet from the	East/West line	County
I	14	19S	28E		2080'	SOUTH	330'	EAST	EDDY

Additional Well Information

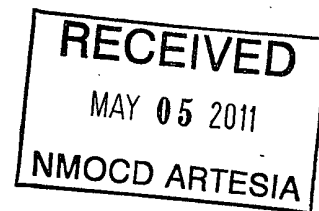
11 Work Type Code N ✓	12 Well Type Code O ✓	13 Cable/Rotary ROTARY ✓	14 Lease Type Code S ✓	15 Ground Level Elevation 3454' ✓
16 Multiple NO ✓	17 Proposed Depth 7473'-TVD ✓	18 Formation 3rd BONE SPRING ✓	19 Contractor UNKNOWN	20 Spud Date WHEN APPROVED

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#	400'	440 Sx.	SURFACE
12 1/2"	9 5/8"	40#	2500'	540 Sx.	SURFACE
8 3/4"	7"	26#	7000'	550 Sx.	2000' From Surf.
6 1/4"	4 1/2"	11.6#	MD-11,815'	485 Sx.	Top of liner

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

OIL CONSERVATION DIVISION

Approved by: *RR Dade*

Title: Permit Eng.

Title: *Dist II Supervisor*

E-mail Address: joejanica@valornet.com

Approval Date: 05/10/2011

Expiration Date: 05/14/2013

Date: 05/04/11

Phone: 575-391-8503

Conditions of Approval Attached ☐

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-Mix
2. Drill 17½" hole to 400'. Run and set 400' of 13 3/8" 48# H-40 ST&C casing. Cement with 440 Sx. of Class "C" cement + 2% CaCl, + 0.25#/Sx. of Cello Flakes, Yield 1.6 100% excess, circulate cement to surface.
3. Drill 12¼" hole to 3180'. Run and set 3180' of 9 5/8" 40# J-55 LT&C casing. Cement with 340 Sx. of 50/50 POZ Class "C" cement + 5% Salt, + 10% Bentonite, + 0.25#/Sx. of Cello Flakes, Yield 2.16, tail in with 200 Sx. of Class "C" cement + 2% CaCl. + 0.25#/Sx. of Cello Flakes, Yield 1.35, circulate cement to surface. 100% excess cement.
4. Drill 8 3/4" hole to 9000'. Log well from 9000' back to 3180'. Set a 250 Sx. cement plug in open hole. Run and set 7000' of 7" 26# P-110 LT&C casing. Cement with 355 Sx. of 50/50 POZ Premium Plus Class "H" cement + 0.15% R-3, + 10% Bentonite, + 0.25#/Sx. Cello Flakes, tail in with 200 Sx. of 50/50 POZ Premium Plus Class "H" cement + 2% Bentonite, + 0.25#/Sx. Cello Flakes, estimate top of cement 2000' from surface. 11815
5. Start KO point for horizontal hole at 7100' drill 6 1/4" hole to 11,815'-MD, TVD-7473'. Run and set a 5174' 4½" 26# P-110 LT&C liner (top of liner 6550±') Cement with 485 Sx. of Class "C" cement + 1% FL-62, + 0.2% FL-52, + 0.1% Sodium Metasilicate. Complete well in the Bone Spring Formation.



Keystone Petroleum NM LLC

Eddy County, NM (NAN27 NME)

Palmillo 14 State #1H

Palmillo 14 State #1H

OH

Plan: Plan #1 - 6-1/8" Hole

Standard Planning Report

25 April, 2011



Database: EDM-Julio
Company: Keystone Petroleum NM LLC
Project: Eddy County, NM (NAN27 NME)
Site: Palmillo 14 State #1H
Well: Palmillo 14 State #1H
Wellbore: OH
Design: Plan #1 - 6-1/8" Hole

Local Co-ordinate Reference: Well Palmillo 14 State #1H
TVD Reference: KB Elev (18') @ 3473.00usft
MD Reference: KB Elev (18') @ 3473.00usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAN27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Palmillo 14 State #1H		
Site Position:		Northing:	0.00 usft
From:	None	Easting:	0.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	0° 0' 0.000 N
		Longitude:	0° 0' 0.000 E
		Grid Convergence:	0.00 °

Well	Palmillo 14 State #1H		
Well Position	+N/-S	0.00 usft	Latitude:
	+E/-W	0.00 usft	Longitude:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,455.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	User Defined	2011/04/25	0.00	0.00	0

Design	Plan #1 - 6-1/8" Hole			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	90.00

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,520.56	88.20	90.00	7,338.00	0.00	327.54	16.94	16.94	0.00	90.00	
11,815.15	88.20	90.00	7,473.00	0.00	4,620.00	0.00	0.00	0.00	0.00	PBHL-Palmillo 14 #1

Database: EDM-Julio
Company: Keystone Petroleum NM LLC
Project: Eddy County, NM (NAN27 NME)
Site: Palmillo 14 State #1H
Well: Palmillo 14 State #1H
Wellbore: OH
Design: Plan #1 - 6-1/8" Hole

Local Co-ordinate Reference: Well Palmillo 14 State #1H
TVD Reference: KB Elev (18') @ 3473.00usft
MD Reference: KB Elev (18') @ 3473.00usft
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00	0.00
SALT (Base)									
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates (YTES)									
2,490.00	0.00	0.00	2,490.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres (SNDR)									
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Casing									
3,180.00	0.00	0.00	3,180.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring Lime (BSGL)									
6,383.00	0.00	0.00	6,383.00	0.00	0.00	0.00	0.00	0.00	0.00
1st Bone Spring Sand									
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7" Casing									
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 16.94°/100'									
7,100.00	16.94	90.00	7,098.55	0.00	14.68	14.68	16.94	16.94	0.00
7,200.00	33.89	90.00	7,188.54	0.00	57.44	57.44	16.94	16.94	0.00
7,226.97	38.45	90.00	7,210.31	0.00	73.35	73.35	16.94	16.94	0.00
2nd Bone Spring Sand									
7,300.00	50.83	90.00	7,262.17	0.00	124.57	124.57	16.94	16.94	0.00
7,400.00	67.77	90.00	7,313.04	0.00	210.24	210.24	16.94	16.94	0.00
7,500.00	84.72	90.00	7,336.73	0.00	307.02	307.02	16.94	16.94	0.00
7,520.56	88.20	90.00	7,338.00	0.00	327.54	327.54	16.94	16.94	0.00
Land EOC hold 88.20°									
7,600.00	88.20	90.00	7,340.50	0.00	406.94	406.94	0.00	0.00	0.00
7,700.00	88.20	90.00	7,343.64	0.00	506.89	506.89	0.00	0.00	0.00
7,800.00	88.20	90.00	7,346.78	0.00	606.84	606.84	0.00	0.00	0.00
7,900.00	88.20	90.00	7,349.93	0.00	706.79	706.79	0.00	0.00	0.00
8,000.00	88.20	90.00	7,353.07	0.00	806.74	806.74	0.00	0.00	0.00
8,100.00	88.20	90.00	7,356.21	0.00	906.69	906.69	0.00	0.00	0.00
8,200.00	88.20	90.00	7,359.36	0.00	1,006.64	1,006.64	0.00	0.00	0.00
8,300.00	88.20	90.00	7,362.50	0.00	1,106.59	1,106.59	0.00	0.00	0.00
8,400.00	88.20	90.00	7,365.64	0.00	1,206.54	1,206.54	0.00	0.00	0.00
8,500.00	88.20	90.00	7,368.79	0.00	1,306.49	1,306.49	0.00	0.00	0.00
8,600.00	88.20	90.00	7,371.93	0.00	1,406.44	1,406.44	0.00	0.00	0.00
8,700.00	88.20	90.00	7,375.08	0.00	1,506.39	1,506.39	0.00	0.00	0.00
8,800.00	88.20	90.00	7,378.22	0.00	1,606.35	1,606.35	0.00	0.00	0.00
8,900.00	88.20	90.00	7,381.36	0.00	1,706.30	1,706.30	0.00	0.00	0.00
9,000.00	88.20	90.00	7,384.51	0.00	1,806.25	1,806.25	0.00	0.00	0.00
9,100.00	88.20	90.00	7,387.65	0.00	1,906.20	1,906.20	0.00	0.00	0.00
9,200.00	88.20	90.00	7,390.79	0.00	2,006.15	2,006.15	0.00	0.00	0.00
9,300.00	88.20	90.00	7,393.94	0.00	2,106.10	2,106.10	0.00	0.00	0.00
9,400.00	88.20	90.00	7,397.08	0.00	2,206.05	2,206.05	0.00	0.00	0.00
9,500.00	88.20	90.00	7,400.22	0.00	2,306.00	2,306.00	0.00	0.00	0.00
9,600.00	88.20	90.00	7,403.37	0.00	2,405.95	2,405.95	0.00	0.00	0.00
9,700.00	88.20	90.00	7,406.51	0.00	2,505.90	2,505.90	0.00	0.00	0.00
9,800.00	88.20	90.00	7,409.65	0.00	2,605.85	2,605.85	0.00	0.00	0.00
9,900.00	88.20	90.00	7,412.80	0.00	2,705.80	2,705.80	0.00	0.00	0.00
10,000.00	88.20	90.00	7,415.94	0.00	2,805.75	2,805.75	0.00	0.00	0.00
10,100.00	88.20	90.00	7,419.08	0.00	2,905.70	2,905.70	0.00	0.00	0.00
10,200.00	88.20	90.00	7,422.23	0.00	3,005.65	3,005.65	0.00	0.00	0.00

Database:	EDM-Julio	Local Co-ordinate Reference:	Well Palmillo 14 State #1H
Company:	Keystone Petroleum NM LLC	TVD Reference:	KB Elev (18') @ 3473.00usft
Project:	Eddy County, NM (NAN27 NME)	MD Reference:	KB Elev (18') @ 3473.00usft
Site:	Palmillo 14 State #1H	North Reference:	True
Well:	Palmillo 14 State #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 - 6-1/8" Hole		

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)
10,300.00	88.20	90.00	7,425.37	0.00	3,105.60	3,105.60	0.00	0.00	0.00
10,400.00	88.20	90.00	7,428.52	0.00	3,205.55	3,205.55	0.00	0.00	0.00
10,500.00	88.20	90.00	7,431.66	0.00	3,305.51	3,305.51	0.00	0.00	0.00
10,600.00	88.20	90.00	7,434.80	0.00	3,405.46	3,405.46	0.00	0.00	0.00
10,700.00	88.20	90.00	7,437.95	0.00	3,505.41	3,505.41	0.00	0.00	0.00
10,800.00	88.20	90.00	7,441.09	0.00	3,605.36	3,605.36	0.00	0.00	0.00
10,900.00	88.20	90.00	7,444.23	0.00	3,705.31	3,705.31	0.00	0.00	0.00
11,000.00	88.20	90.00	7,447.38	0.00	3,805.26	3,805.26	0.00	0.00	0.00
11,100.00	88.20	90.00	7,450.52	0.00	3,905.21	3,905.21	0.00	0.00	0.00
11,200.00	88.20	90.00	7,453.66	0.00	4,005.16	4,005.16	0.00	0.00	0.00
11,300.00	88.20	90.00	7,456.81	0.00	4,105.11	4,105.11	0.00	0.00	0.00
11,400.00	88.20	90.00	7,459.95	0.00	4,205.06	4,205.06	0.00	0.00	0.00
11,500.00	88.20	90.00	7,463.09	0.00	4,305.01	4,305.01	0.00	0.00	0.00
11,600.00	88.20	90.00	7,466.24	0.00	4,404.96	4,404.96	0.00	0.00	0.00
11,700.00	88.20	90.00	7,469.38	0.00	4,504.91	4,504.91	0.00	0.00	0.00
11,800.00	88.20	90.00	7,472.52	0.00	4,604.86	4,604.86	0.00	0.00	0.00
11,815.15	88.20	90.00	7,473.00	0.00	4,620.00	4,620.00	0.00	0.00	0.00

PBHL-Palmillo 14 #1

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL-Palmillo 14 #1	0.00	0.00	7,473.00	0.00	4,620.00	-66.26	4,619.52		
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
2,500.00	2,500.00	9-5/8" Casing	9-5/8	12-1/4
6,800.00	6,800.00	7" Casing	7	7-1/2

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
650.00	650.00	SALT (Base)		1.80	90.00
850.00	850.00	Yates (YTES)		1.80	90.00
2,490.00	2,490.00	San Andres (SNDR)		1.80	90.00
3,180.00	3,180.00	Bone Spring Lime (BSGL)		1.80	90.00
6,383.00	6,383.00	1st Bone Spring Sand		1.80	90.00
7,226.97	7,210.31	2nd Bone Spring Sand		1.80	90.00

Database: EDM-Julio
Company: Keystone Petroleum NM LLC
Project: Eddy County, NM (NAN27 NME)
Site: Palmillo 14 State #1H
Well: Palmillo 14 State #1H
Wellbore: OH
Design: Plan #1 - 6-1/8" Hole

Local Co-ordinate Reference: Well Palmillo 14 State #1H
TVD Reference: KB Elev (18') @ 3473.00usft
MD Reference: KB Elev (18') @ 3473.00usft
North Reference: True
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,000.00	7,000.00	0.00	0.00	KOP Start Build 16.94°/100'
7,520.56	7,338.00	0.00	327.54	Land EOC hold 88.20°



Scientific Drilling for Keystone Petroleum NM LLC
Site: Eddy County, NM (NAN27 NME)
Well: Palmillo 14 State #1H
Wellbore: OH
Design: Plan #1 - 6-1/8" Hole



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	
3	7520.56	88.20	90.00	7338.00	0.00	327.54	16.94	90.00	327.54	
4	11815.14	88.20	90.00	7473.00	0.00	4620.00	0.00	0.00	4620.00	PBHL-Palmillo 14 #1

WELL DETAILS: Palmillo 14 State #1H

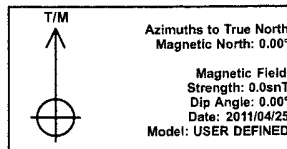
+N/-S	+E/-W	Ground Level:	3455.00	Latitude	Longitude
0.00	0.00	North	0.00	East	0.00

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

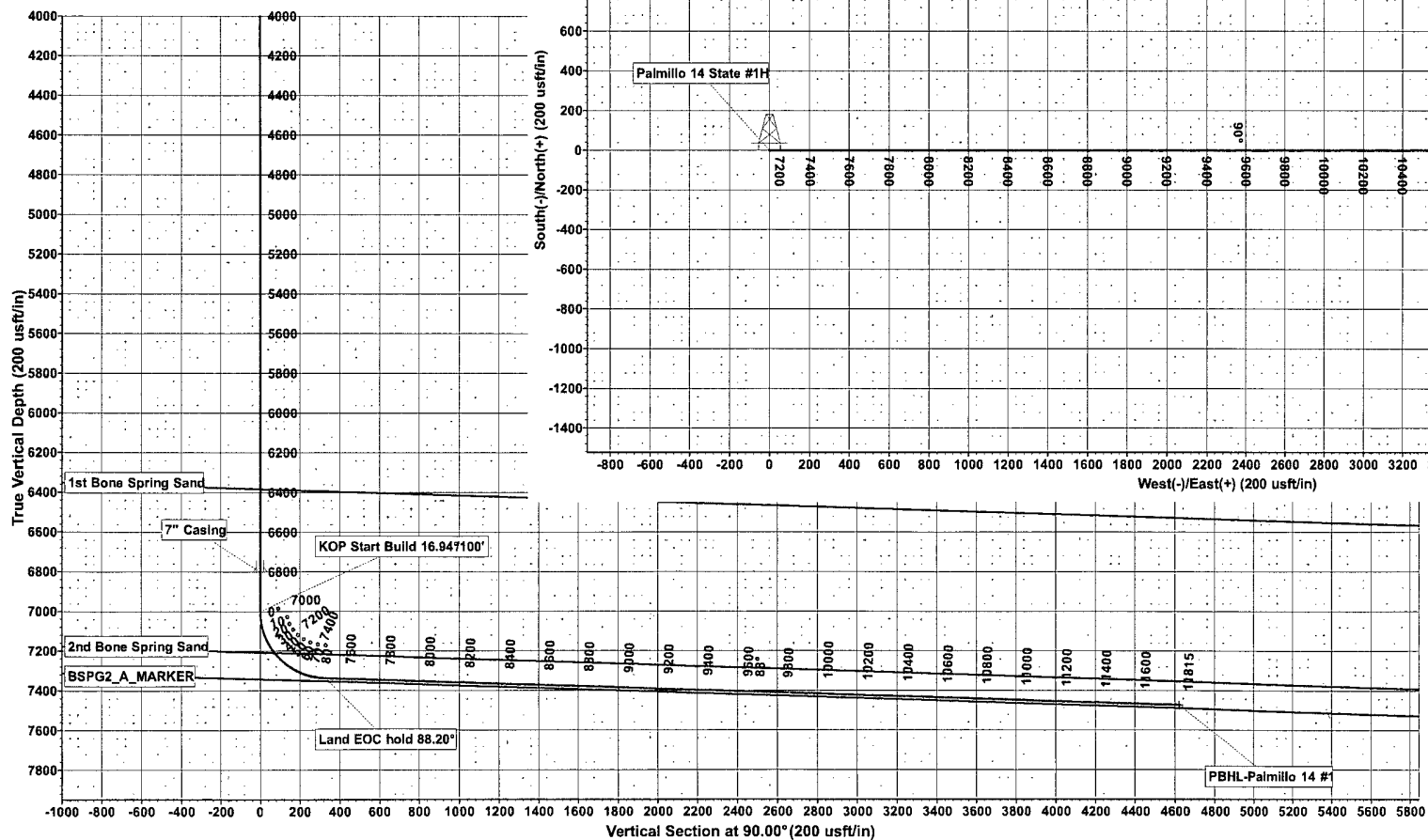
Name	TVD	+N/-S	+E/-W	North	East	Lat	Long	Shape
PBHL-Palmillo 14 #1	7473.00	0.00	4620.00	-66.26	4619.52			Point

LEGEND

—●— Plan #1 - 6-1/8" Hole



AZIMUTH CORRECTIONS
ALL AZIMUTHS MUST BE CORRECTED TO GRID
GRID CORRECTIONS MUST BE APPLIED BEFORE PLOTTING
To convert a Magnetic Direction to a Grid Direction, Add 0.82°
To convert a True Direction to a Grid Direction, Add 0.82°



PROJECT DETAILS: Eddy County, NM (NAN27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Plan: Plan #1 - 6-1/8" Hole (Palmillo 14 State #1H/OH)

Created By: Julio Pina Date: 25-Apr-11

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Palmillo 14 State #1H - Plan #1 Proposal

Keystone Petroleum NM LLC

Palmillo 14 State #1H - Plan #1 - 6-1/8" Hole

Eddy County, NM (NAN27 NME)

Ground Elevation: 3455.0'

KB Datum Elevation: 3473.0'

All data are in feet unless otherwise stated. Directions and coordinates are relative to True North.

Vertical depths are relative to KB Elev (18'). Northings and Eastings are relative to well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 90.000° (True).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001.

Grid Convergence at Surface is -0.822°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 11815.14ft., the Bottom Hole Displacement is 4620.00ft., in the Direction of 90.000° (True).

Survey Tools:

H 0.00 - 7000.00 PLAN #1 - 6-1/8" HOLE : KEEPER

H 7000.00 - 11815.14 PLAN #1 - 6-1/8" HOLE : MWD

Survey Report:

Measured UTM Coordinates			Sub-Sea Vertical	Vertical Dogleg	Local Coordinates	
Depth	Incl.	Azim.	Depth	Depth	Northings	Eastings
Northings		Eastings	Section	Rate		
ft			ft	ft	ft	ft
(ft)		(ft)	ft	100 feet		
0.00	0.00	0.00	-3473.00	0.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00		
650.00	0.00	0.00	-2823.00	650.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	SALT (Base) - Keeper (1)	
850.00	0.00	0.00	-2623.00	850.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	Yates (YTES)	
2490.00	0.00	0.00	-983.00	2490.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	San Andres (SADR)	
2500.00	0.00	0.00	-973.00	2500.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	9-5/8" Casing	
3180.00	0.00	0.00	-293.00	3180.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	Bone Spring Lime (BSGL)	
6383.00	0.00	0.00	2910.00	6383.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	1st Bone Spring Sand	
6800.00	0.00	0.00	3327.00	6800.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	7" Casing	
7000.00	0.00	0.00	3527.00	7000.00	0.00 N	0.00 E
0.00 N		0.00 E	0.00	0.00	KOP Start Build 16.94°/100'	
7025.00	4.24	90.00	3551.98	7024.98	0.00 N	0.92 E
0.01 S		0.92 E	0.92	16.94	MWD (2)	
7050.00	8.47	90.00	3576.82	7049.82	0.00 N	3.69 E
0.05 S		3.69 E	3.69	16.94		
7075.00	12.71	90.00	3601.39	7074.39	0.00 N	8.28 E
0.12 S		8.28 E	8.28	16.94		
7100.00	16.94	90.00	3625.55	7098.55	0.00 N	14.68 E

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0.21 S	14.68 E	14.68	16.94		
7125.00	21.18 90.00	3649.17	7122.17	0.00 N	22.84 E
0.33 S	22.84 E	22.84	16.94		
7150.00	25.41 90.00	3672.13	7145.13	0.00 N	32.73 E
0.47 S	32.72 E	32.73	16.94		
7175.00	29.65 90.00	3694.29	7167.29	0.00 N	44.28 E
0.64 S	44.27 E	44.28	16.94		
7200.00	33.89 90.00	3715.54	7188.54	0.00 N	57.44 E
0.82 S	57.43 E	57.44	16.94		
7225.00	38.12 90.00	3735.76	7208.76	0.00 N	72.13 E
1.03 S	72.12 E	72.13	16.94		
7226.97	38.45 90.00	3737.31	7210.31	0.00 N	73.35 E
1.05 S	73.34 E	73.35	16.94	2nd Bone Spring Sand	
7250.00	42.36 90.00	3754.84	7227.84	0.00 N	88.28 E
1.27 S	88.27 E	88.28	16.94		
7275.00	46.59 90.00	3772.68	7245.68	0.00 N	105.79 E
1.52 S	105.78 E	105.79	16.94		
7300.00	50.83 90.00	3789.17	7262.17	0.00 N	124.57 E
1.79 S	124.56 E	124.57	16.94		
7325.00	55.06 90.00	3804.23	7277.23	0.00 N	144.52 E
2.07 S	144.50 E	144.52	16.94		
7350.00	59.30 90.00	3817.78	7290.78	0.00 N	165.52 E
2.37 S	165.50 E	165.52	16.94		
7375.00	63.54 90.00	3829.73	7302.73	0.00 N	187.47 E
2.69 S	187.45 E	187.47	16.94		
7400.00	67.77 90.00	3840.04	7313.04	0.00 N	210.24 E
3.02 S	210.22 E	210.24	16.94		
7425.00	72.01 90.00	3848.63	7321.63	0.00 N	233.71 E
3.35 S	233.69 E	233.71	16.94		
7450.00	76.24 90.00	3855.47	7328.47	0.00 N	257.75 E
3.70 S	257.73 E	257.75	16.94		
7475.00	80.48 90.00	3860.51	7333.51	0.00 N	282.23 E
4.05 S	282.20 E	282.23	16.94		
7500.00	84.72 90.00	3863.73	7336.73	0.00 N	307.02 E
4.40 S	306.99 E	307.02	16.94		
7520.56	88.20 90.00	3865.00	7338.00	0.00 N	327.54 E
4.70 S	327.50 E	327.54	16.94	Land EOC hold 88.20°	
7600.00	88.20 90.00	3867.50	7340.50	0.00 N	406.94 E
5.84 S	406.90 E	406.94	0.00		
7700.00	88.20 90.00	3870.64	7343.64	0.00 N	506.89 E
7.27 S	506.84 E	506.89	0.00		
7800.00	88.20 90.00	3873.78	7346.78	0.00 N	606.84 E
8.70 S	606.78 E	606.84	0.00		
7900.00	88.20 90.00	3876.93	7349.93	0.00 N	706.79 E
10.14 S	706.72 E	706.79	0.00		
8000.00	88.20 90.00	3880.07	7353.07	0.00 N	806.74 E
11.57 S	806.66 E	806.74	0.00		
8100.00	88.20 90.00	3883.21	7356.21	0.00 N	906.69 E
13.00 S	906.60 E	906.69	0.00		
8200.00	88.20 90.00	3886.36	7359.36	0.00 N	1006.64 E
14.44 S	1006.54 E	1006.64	0.00		
8300.00	88.20 90.00	3889.50	7362.50	0.00 N	1106.59 E
15.87 S	1106.48 E	1106.59	0.00		
8400.00	88.20 90.00	3892.64	7365.64	0.00 N	1206.54 E
17.30 S	1206.42 E	1206.54	0.00		
8500.00	88.20 90.00	3895.79	7368.79	0.00 N	1306.49 E
18.74 S	1306.36 E	1306.49	0.00		
8600.00	88.20 90.00	3898.93	7371.93	0.00 N	1406.44 E
20.17 S	1406.30 E	1406.44	0.00		
8700.00	88.20 90.00	3902.08	7375.08	0.00 N	1506.39 E
21.61 S	1506.24 E	1506.39	0.00		
8800.00	88.20 90.00	3905.22	7378.22	0.00 N	1606.35 E
23.04 S	1606.18 E	1606.35	0.00		

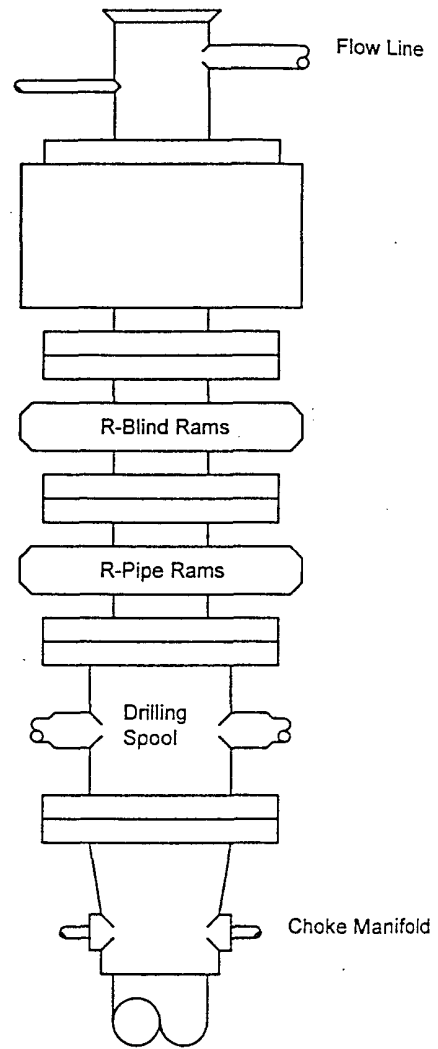
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8900.00	88.20	90.00	3908.36	7381.36	0.00 N	1706.30 E
24.47 S	1706.12 E	1706.30	0.00			
9000.00	88.20	90.00	3911.51	7384.51	0.00 N	1806.25 E
25.91 S	1806.06 E	1806.25	0.00			
9100.00	88.20	90.00	3914.65	7387.65	0.00 N	1906.20 E
27.34 S	1906.00 E	1906.20	0.00			
9200.00	88.20	90.00	3917.79	7390.79	0.00 N	2006.15 E
28.77 S	2005.94 E	2006.15	0.00			
9300.00	88.20	90.00	3920.94	7393.94	0.00 N	2106.10 E
30.21 S	2105.88 E	2106.10	0.00			
9400.00	88.20	90.00	3924.08	7397.08	0.00 N	2206.05 E
31.64 S	2205.82 E	2206.05	0.00			
9500.00	88.20	90.00	3927.22	7400.22	0.00 N	2306.00 E
33.07 S	2305.76 E	2306.00	0.00			
9600.00	88.20	90.00	3930.37	7403.37	0.00 N	2405.95 E
34.51 S	2405.70 E	2405.95	0.00			
9700.00	88.20	90.00	3933.51	7406.51	0.00 N	2505.90 E
35.94 S	2505.64 E	2505.90	0.00			
9800.00	88.20	90.00	3936.65	7409.65	0.00 N	2605.85 E
37.37 S	2605.58 E	2605.85	0.00			
9900.00	88.20	90.00	3939.80	7412.80	0.00 N	2705.80 E
38.81 S	2705.52 E	2705.80	0.00			
10000.00	88.20	90.00	3942.94	7415.94	0.00 N	2805.75 E
40.24 S	2805.46 E	2805.75	0.00			
10100.00	88.20	90.00	3946.08	7419.08	0.00 N	2905.70 E
41.67 S	2905.40 E	2905.70	0.00			
10200.00	88.20	90.00	3949.23	7422.23	0.00 N	3005.65 E
43.11 S	3005.34 E	3005.65	0.00			
10300.00	88.20	90.00	3952.37	7425.37	0.00 N	3105.60 E
44.54 S	3105.28 E	3105.60	0.00			
10400.00	88.20	90.00	3955.51	7428.51	0.00 N	3205.55 E
45.98 S	3205.22 E	3205.55	0.00			
10500.00	88.20	90.00	3958.66	7431.66	0.00 N	3305.51 E
47.41 S	3305.17 E	3305.51	0.00			
10600.00	88.20	90.00	3961.80	7434.80	0.00 N	3405.46 E
48.84 S	3405.11 E	3405.46	0.00			
10700.00	88.20	90.00	3964.95	7437.95	0.00 N	3505.41 E
50.28 S	3505.05 E	3505.41	0.00			
10800.00	88.20	90.00	3968.09	7441.09	0.00 N	3605.36 E
51.71 S	3604.99 E	3605.36	0.00			
10900.00	88.20	90.00	3971.23	7444.23	0.00 N	3705.31 E
53.14 S	3704.93 E	3705.31	0.00			
11000.00	88.20	90.00	3974.38	7447.38	0.00 N	3805.26 E
54.58 S	3804.87 E	3805.26	0.00			
11100.00	88.20	90.00	3977.52	7450.52	0.00 N	3905.21 E
56.01 S	3904.81 E	3905.21	0.00			
11200.00	88.20	90.00	3980.66	7453.66	0.00 N	4005.16 E
57.44 S	4004.75 E	4005.16	0.00			
11300.00	88.20	90.00	3983.81	7456.81	0.00 N	4105.11 E
58.88 S	4104.69 E	4105.11	0.00			
11400.00	88.20	90.00	3986.95	7459.95	0.00 N	4205.06 E
60.31 S	4204.63 E	4205.06	0.00			
11500.00	88.20	90.00	3990.09	7463.09	0.00 N	4305.01 E
61.74 S	4304.57 E	4305.01	0.00			
11600.00	88.20	90.00	3993.24	7466.24	0.00 N	4404.96 E
63.18 S	4404.51 E	4404.96	0.00			
11700.00	88.20	90.00	3996.38	7469.38	0.00 N	4504.91 E
64.61 S	4504.45 E	4504.91	0.00			
11800.00	88.20	90.00	3999.52	7472.52	0.00 N	4604.86 E
66.04 S	4604.39 E	4604.86	0.00			
11815.14	88.20	90.00	4000.00	7473.00	0.00 N	4620.00 E
66.26 S	4619.52 E	4620.00	0.00	PBHL-Palmillo 14 #1		

BLOWOUT PREVENTER SYSTEM

5000 PSI

Fill Line

Flow Line



TYPE 1500 SERIES
5000 psi WP

Choke Manifold Assembly for 5M WP System

