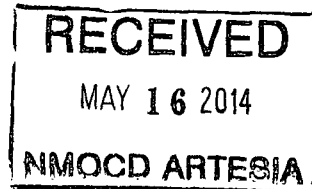




PHOENIX
TECHNOLOGY SERVICES

May 13, 2014

Oil Conservation Division
State of New Mexico
811 S. First St.
District 2- Artesia
Artesia, New Mexico 88210



Attention: Regulatory Department

RD 5/22/14
Accepted for record
NMOCD

Re: Yates Petroleum
Boyd X State Conn #14H
Eddy County, NM
API #30-015- 42253
Job No. 1410510

30-015-42253

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
James Garber	14H	2,062	7,286	04/27/14	05/03/14	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Dana Robinson

Dana Robinson
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 1943

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1410510

OPERATOR Yates Petroleum

WELL NAME Boyd X State Com #14H

COUNTY & STATE Eddy Co., NM

API WELL NUMBER 30-015-42253

PROPOSED DIRECTION 86.38

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
ft	.00 ft	.0 ft	.0 ft	.00 ft	.00 ft	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
27-Apr-14	2,062 ft	1.0	192.1

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
3-May-14	7,286 ft	90.2	78.5

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
3-May-14	7,350 ft	90.2	78.5

James Garber

PRINT YOUR NAME ABOVE

James Garber

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.7
DECLINATION OR GRID	GRID

5/3/2014

TODAY'S DATE

MWD SUPERVISOR 1

James Garber

DIRECTIONAL DRILLER 1

Brian Terrell

MWD SUPERVISOR 2

David Puente

DIRECTIONAL DRILLER 2

Daniel Scott

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)

DISTRICT I

1825 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8181 Fax: (505) 393-9720

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (505) 745-1263 Fax: (505) 745-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3480 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name BOYD X STATE COM	Well Number 14H
OGRID No. 025575	Operator Name YATES PETROLEUM CORPORATION	Elevation 3531

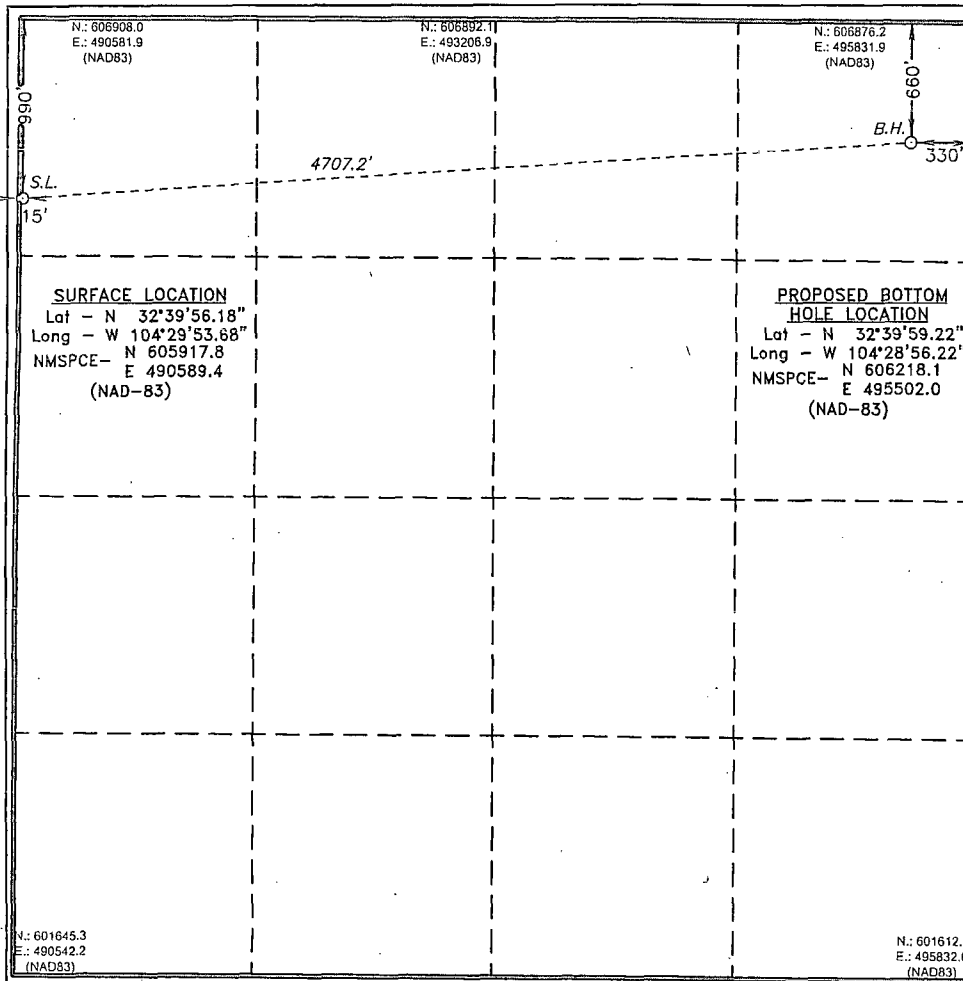
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	19 S	25 E		990	NORTH	15	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	19 S	25 E		660	NORTH	330	EAST	EDDY
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

Email Address _____

SURVEYOR CERTIFICATION

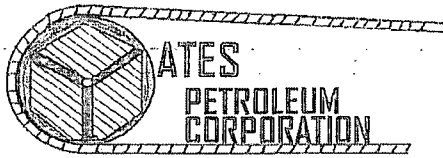
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date Surveyed _____

Signature of Professional Surveyor _____

Certificate No. 7977

0' 500' 1000' 1500' 2000'
SCALE: 1" = 1000'
WO Num.: 30181



Yates Petroleum Corp.

Eddy County, NM (NAD83 NME)

Boyd X State Com

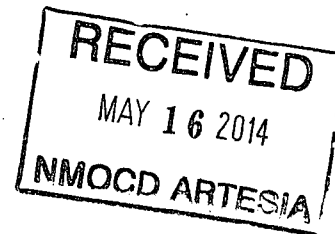
#14H

WB1/Job #1410510

Design: Surveys (McVay 8)

Standard Survey Report

03 May, 2014



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services

Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Boyd X State Com
Well: #14H
Wellbore: WB1/Job #1410510
Design: Surveys (McVay 8)

Local Co-ordinate Reference: Well #14H
TVD Reference: KB @ 3549.00usft (Silver Oak 11)
MD Reference: KB @ 3549.00usft (Silver Oak 11)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Project: Eddy County, NM (NAD83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site: Boyd X State Com

Site Position: Northing: 605,917.80 usft Latitude: 32° 39' 56.18038 N
From: Map Easting: 490,589.40 usft Longitude: 104° 29' 53.68395 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: -0.09 °

Well: #14H, 990' FNL & 15' FWL

Well Position: +N-S 0.00 usft Northing: 605,917.80 usft Latitude: 32° 39' 56.18038 N
+E-W 0.00 usft Easting: 490,589.40 usft Longitude: 104° 29' 53.68395 W
Position Uncertainty: 0.00 usft Wellhead Elevation: usft Ground Level: 3,531.00 usft

Wellbore: WB1/Job #1410510

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	03/24/14	7.70	60.37	48,501

Design: Surveys (McVay 8)

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	86.38

Survey Program: Date 05/03/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	2,000.00	Gyro Surveys (WB1/Job #1410510)	NS-GYRO-MS	North sensing gyrocompassing m/s
2,062.00	7,350.00	Phoenix MWD Surveys (WB1/Job #14105)	MWD	MWD - Standard

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
100.00	0.60	154.57	100.00	-0.47	0.22	0.19	0.60	0.60	0.00
200.00	0.48	166.78	199.99	-1.35	0.55	0.46	0.17	-0.12	12.21
300.00	0.49	112.26	299.99	-1.92	1.04	0.91	0.44	0.01	-54.52
400.00	0.19	197.50	399.99	-2.24	1.38	1.24	0.51	-0.30	85.24
500.00	0.39	204.80	499.99	-2.71	1.19	1.02	0.20	0.20	7.30
600.00	0.45	158.56	599.99	-3.38	1.19	0.97	0.33	0.06	-46.24
700.00	0.94	171.42	699.98	-4.56	1.46	1.17	0.51	0.49	12.86
800.00	0.35	194.34	799.97	-5.67	1.50	1.14	0.63	-0.59	22.92
900.00	0.75	166.00	899.97	-6.60	1.59	1.17	0.47	0.40	-28.34



Phoenix Technology Services

Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Boyd X State Com
Well: #14H
Wellbore: WB1/Job #1410510
Design: Surveys (McVay 8)

Local Co-ordinate Reference: Well #14H
TVD Reference: KB @ 3549.00usft (Silver Oak 11)
MD Reference: KB @ 3549.00usft (Silver Oak 11)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
1,000.00	1.62	214.28	999.95	-8.40	0.95	0.42	1.25	0.87	48.28
1,100.00	1.49	230.44	1,099.91	-10.40	-0.85	-1.50	0.46	-0.13	16.16
1,200.00	1.32	234.38	1,199.88	-11.90	-2.79	-3.53	0.20	-0.17	3.94
1,300.00	0.81	238.39	1,299.86	-12.94	-4.33	-5.14	0.52	-0.51	4.01
1,400.00	0.62	237.97	1,399.85	-13.60	-5.39	-6.24	0.19	-0.19	-0.42
1,500.00	0.53	245.46	1,499.85	-14.08	-6.27	-7.14	0.12	-0.09	7.49
1,600.00	0.45	252.18	1,599.85	-14.39	-7.06	-7.96	0.10	-0.08	6.72
1,700.00	0.54	233.90	1,699.84	-14.79	-7.82	-8.73	0.18	0.09	-18.28
1,800.00	0.58	194.01	1,799.94	-15.55	-8.32	-9.28	0.38	0.04	-39.89
1,900.00	0.38	207.23	1,899.83	-16.34	-8.59	-9.61	0.23	-0.20	13.22
2,000.00	0.53	202.97	1,999.83	-17.06	-8.93	-9.99	0.15	0.15	-4.26
Tie In to Gyro Surveys									
2,062.00	1.00	192.10	2,061.83	-17.85	-9.15	-10.26	0.79	0.76	-17.53
First Phoenix MWD Survey									
2,093.00	1.30	192.70	2,092.82	-18.46	-9.29	-10.43	0.97	0.97	1.94
2,125.00	4.30	92.70	2,124.79	-18.87	-8.17	-9.34	14.70	9.38	-312.50
2,157.00	11.90	83.60	2,156.45	-18.56	-3.68	-4.85	24.01	23.75	-28.44
2,188.00	20.40	79.20	2,186.20	-17.19	4.82	3.72	27.68	27.42	-14.19
2,220.00	25.60	75.90	2,215.64	-14.46	17.01	16.06	16.74	16.25	-10.31
2,252.00	27.40	75.60	2,244.28	-10.94	30.85	30.09	5.64	5.63	-0.94
2,283.00	29.40	77.90	2,271.55	-7.57	45.20	44.63	7.35	6.45	7.42
2,315.00	32.60	81.50	2,298.98	-4.65	61.41	60.99	11.55	10.00	11.25
2,347.00	35.40	84.70	2,325.51	-2.52	79.17	78.85	10.38	8.75	10.00
2,378.00	38.40	85.80	2,350.29	-0.99	97.72	97.46	9.91	9.68	3.55
2,410.00	42.50	85.80	2,374.64	0.53	118.42	118.21	12.81	12.81	0.00
2,442.00	45.80	86.40	2,397.60	2.05	140.65	140.50	10.39	10.31	1.88
2,473.00	48.60	87.40	2,418.66	3.27	163.36	163.24	9.34	9.03	3.23
2,505.00	51.30	88.60	2,439.25	4.12	187.84	187.72	8.91	8.44	3.75
2,537.00	53.90	88.80	2,458.68	4.70	213.25	213.12	8.14	8.13	0.63
2,569.00	57.20	88.20	2,476.78	5.39	239.63	239.49	10.43	10.31	-1.88
2,600.00	60.30	88.00	2,492.86	6.27	266.11	265.98	10.02	10.00	-0.65
2,632.00	63.20	87.10	2,508.01	7.48	294.27	294.15	9.39	9.06	-2.81
2,655.04	65.36	86.96	2,518.00	8.56	315.00	314.91	9.39	9.37	-0.63
2655.04' MD, 330' Heel Crossing Point									
2,664.00	66.20	86.90	2,521.68	8.99	323.16	323.08	9.39	9.38	-0.61
2,695.00	69.50	87.80	2,533.37	10.32	351.83	351.78	10.98	10.65	2.90
2,727.00	72.70	87.30	2,543.73	11.61	382.08	382.05	10.11	10.00	-1.56
2,758.00	76.80	87.70	2,551.88	12.92	411.95	411.94	13.28	13.23	1.29
2,790.00	80.80	87.50	2,558.10	14.23	443.31	443.32	12.52	12.50	-0.63
2,822.00	83.90	87.80	2,562.36	15.53	474.99	475.03	9.73	9.69	0.94
2,843.00	85.30	88.30	2,564.33	16.24	495.89	495.92	7.08	6.67	2.38
2,874.00	88.40	89.20	2,566.04	16.92	526.83	526.85	10.41	10.00	2.90
2,938.00	88.60	88.80	2,567.71	18.03	590.80	590.76	0.70	0.31	-0.63



Phoenix Technology Services

Survey Report



Company: Yates Petroleum Corp.
Project: Eddy County, NM (NAD83 NME)
Site: Boyd X State Com
Well: #14H
Wellbore: WB1/Job #1410510
Design: Surveys (McVay 8)

Local Co-ordinate Reference: Well #14H
TVD Reference: KB @ 3549.00usft (Silver Oak 11)
MD Reference: KB @ 3549.00usft (Silver Oak 11)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
3,033.00	88.60	87.40	2,570.03	21.18	685.71	685.68	1.47	0.00	-1.47
3,128.00	89.10	89.00	2,571.94	24.17	780.64	780.61	1.76	0.53	1.68
3,222.00	89.80	89.40	2,572.84	25.48	874.63	874.49	0.86	0.74	0.43
3,317.00	89.80	89.10	2,573.17	26.72	969.62	969.37	0.32	0.00	-0.32
3,412.00	90.20	89.30	2,573.17	28.05	1,064.61	1,064.26	0.47	0.42	0.21
3,507.00	89.60	89.20	2,573.34	29.29	1,159.60	1,159.14	0.64	-0.63	-0.11
3,602.00	89.40	89.30	2,574.17	30.53	1,254.59	1,254.02	0.24	-0.21	0.11
3,697.00	88.90	89.10	2,575.58	31.86	1,349.57	1,348.89	0.57	-0.53	-0.21
3,792.00	88.50	89.70	2,577.73	32.86	1,444.54	1,443.73	0.76	-0.42	0.63
3,887.00	88.10	89.90	2,580.55	33.19	1,539.50	1,538.52	0.47	-0.42	0.21
3,982.00	88.00	90.80	2,583.78	32.61	1,634.44	1,633.24	0.95	-0.11	0.95
4,077.00	88.40	89.60	2,586.77	32.28	1,729.39	1,727.98	1.33	0.42	-1.26
4,172.00	88.90	88.80	2,589.01	33.60	1,824.35	1,822.84	0.99	0.53	-0.84
4,267.00	88.80	88.70	2,590.91	35.67	1,919.31	1,917.74	0.15	-0.11	-0.11
4,362.00	88.80	88.60	2,592.90	37.91	2,014.27	2,012.64	0.11	0.00	-0.11
4,457.00	88.20	87.40	2,595.39	41.23	2,109.17	2,107.57	1.41	-0.63	-1.26
4,553.00	88.50	88.40	2,598.15	44.74	2,205.07	2,203.49	1.09	0.31	1.04
4,648.00	88.40	87.60	2,600.72	48.06	2,299.97	2,298.42	0.85	-0.11	-0.84
4,743.00	88.00	88.50	2,603.71	51.29	2,394.87	2,393.33	1.04	-0.42	0.95
4,838.00	89.00	89.10	2,606.19	53.28	2,489.82	2,488.21	1.23	1.05	0.63
4,933.00	89.90	89.30	2,607.11	54.60	2,584.80	2,583.09	0.97	0.95	0.21
5,028.00	89.40	88.30	2,607.69	56.59	2,679.78	2,678.00	1.18	-0.53	-1.05
5,123.00	90.70	90.30	2,607.60	57.75	2,774.76	2,772.87	2.51	1.37	2.11
5,218.00	90.30	90.10	2,606.77	57.42	2,869.76	2,867.66	0.47	-0.42	-0.21
5,313.00	89.80	89.60	2,606.69	57.67	2,964.76	2,962.48	0.74	-0.53	-0.53
5,408.00	88.90	88.60	2,607.77	59.16	3,059.74	3,057.37	1.42	-0.95	-1.05
5,503.00	88.60	90.00	2,609.84	60.32	3,154.71	3,152.22	1.51	-0.32	1.47
5,598.00	88.00	89.20	2,612.66	60.98	3,249.66	3,247.03	1.05	-0.63	-0.84
5,693.00	89.20	88.10	2,614.98	63.22	3,344.60	3,341.92	1.71	1.26	-1.16
5,789.00	89.60	84.60	2,615.99	69.33	3,440.39	3,437.90	3.67	0.42	-3.65
5,884.00	89.20	84.60	2,616.98	78.27	3,534.96	3,532.85	0.42	-0.42	0.00
5,979.00	89.70	82.60	2,617.89	88.86	3,629.36	3,627.73	2.17	0.53	-2.11
6,074.00	89.50	80.00	2,618.56	103.23	3,723.25	3,722.34	2.74	-0.21	-2.74
6,169.00	87.60	78.90	2,620.96	120.62	3,816.61	3,816.61	2.31	-2.00	-1.16
6,264.00	87.00	78.40	2,625.44	139.29	3,909.65	3,910.65	0.82	-0.63	-0.53
6,359.00	87.40	80.30	2,630.08	156.83	4,002.90	4,004.81	2.04	0.42	2.00
6,453.00	88.80	81.30	2,633.19	171.85	4,095.64	4,098.31	1.83	1.49	1.06
6,548.00	89.80	81.90	2,634.35	185.72	4,189.61	4,192.97	1.23	1.05	0.63
6,642.00	89.00	81.30	2,635.34	199.45	4,282.59	4,286.64	1.06	-0.85	-0.64
6,738.00	90.50	82.10	2,635.76	213.31	4,377.58	4,382.32	1.77	1.56	0.83
6,832.00	89.90	82.40	2,635.43	225.99	4,470.72	4,476.07	0.71	-0.64	0.32
6,928.00	88.80	81.70	2,636.52	239.26	4,565.79	4,571.79	1.36	-1.15	-0.73
7,023.00	90.00	81.00	2,637.51	253.55	4,659.70	4,666.42	1.46	1.26	-0.74
7,118.00	91.40	80.80	2,638.35	268.57	4,753.50	4,760.97	1.49	1.47	-0.21



Phoenix Technology Services Survey Report



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Site: Boyd X State Com
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Wellbore: WB1/Job #1410510
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Database: GCR DB

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)
7,213.00	90.80	79.90	2,634.53	284.49	4,847.14	4,855.43	1.14	-0.63	-0.95
7,280.04	90.25	78.61	2,633.92	296.99	4,913.00	4,921.95	2.09	-0.82	-1.92
7280.04' MD, 330' Toe Crossing Point									
7,286.00	90.20	78.50	2,633.89	298.17	4,918.84	4,927.85	2.09	-0.82	-1.92
Last Phoenix MWD Survey									
7,350.00	90.20	78.50	2,633.67	310.93	4,981.55	4,991.25	0.00	0.00	0.00
Projection to TD at 11' N & 69' E of BHL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	1,999.83	-17.06	-8.93	Tie In to Gyro Surveys
2,062.00	2,061.83	-17.85	-9.15	First Phoenix MWD Survey
2,655.04	2,518.00	8.56	315.00	2655.04' MD, 330' Heel Crossing Point
7,280.04	2,633.92	296.99	4,913.00	7280.04' MD, 330' Toe Crossing Point
7,286.00	2,633.89	298.17	4,918.84	Last Phoenix MWD Survey
7,350.00	2,633.67	310.93	4,981.55	Projection to TD at 11' N & 69' E of BHL

Checked By: _____ Approved By: _____ Date: _____