



Chevron

Lea County, NM (NAD27 NME)

Salado Draw 19 26 33 Fed

1H

OH / Job 1513944

Survey: Phoenix MWD Surveys

Standard Survey Report

14 September, 2015





Phoenix Technology Services LP

Survey Report



Company: Chevron
 Project: Lea County, NM (NAD27 NME)
 Site: Salado Draw 19 26 33 Fed
 Well: 1H
 Wellbore: OH / Job 1513944
 Design: Surveys (Pace X30)

Local Co-ordinate Reference: Well 1H
 TVD Reference: RKB @ 3209.00usft (Pace X30)
 MD Reference: RKB @ 3209.00usft (Pace X30)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Compass 5000 GCR

Project	Lea County, NM (NAD27 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	Salado Draw 19 26 33 Fed				
Site Position:		Northing:	377,418.00 usft	Latitude:	32° 2' 8.12574 N
From:	Map	Easting:	723,217.00 usft	Longitude:	103° 36' 46.78603 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.38 °

Well	1H					
Well Position	+N/-S	0.00 usft	Northing:	377,410.00 usft	Latitude:	32° 2' 8.11702 N
	+E/-W	0.00 usft	Easting:	722,147.00 usft	Longitude:	103° 36' 59.21649 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,176.00 usft	

Wellbore	OH / Job 1513944				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/11/2015	7.05	59.77	48,115

Design	Surveys (Pace X30)				
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	186.11	

Survey Program	Date 9/14/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
152.00	13,830.00	Phoenix MWD Surveys (OH / Job 1513944)	PHX+MWD+HDGM	PHX+MWD+HDGM

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
152.00	0.79	144.47	152.00	-0.85	0.61	0.78	0.52	0.52	0.00
First Phoenix Survey									
312.00	0.79	149.21	311.98	-2.70	1.81	2.49	0.04	0.00	2.96
500.00	0.87	150.98	499.96	-5.06	3.17	4.69	0.04	0.04	0.94
685.00	0.83	119.80	684.94	-6.95	5.01	6.38	0.25	-0.02	-16.85
804.00	0.87	126.59	803.93	-7.92	6.49	7.18	0.09	0.03	5.71
948.00	0.92	130.32	947.91	-8.32	8.25	8.39	0.05	0.03	2.59
1,125.00	1.09	136.52	1,124.88	-11.46	10.49	10.28	0.11	0.10	3.50
1,302.00	0.89	144.07	1,301.86	-13.80	12.45	12.39	0.13	-0.11	4.27
1,480.00	0.90	125.02	1,479.84	-15.72	14.41	14.09	0.17	0.01	-10.70



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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
1,657.00	0.84	125.87	1,656.81	-17.28	16.80	15.41	0.03	-0.03	0.48
1,835.00	1.15	133.93	1,834.79	-19.28	18.94	17.15	0.19	0.17	4.53
2,012.00	0.24	306.44	2,011.78	-20.29	19.92	18.06	0.78	-0.51	97.46
2,190.00	3.54	322.73	2,189.66	-15.70	16.30	13.87	1.86	1.85	9.15
2,367.00	4.70	307.18	2,366.20	-6.96	7.21	6.16	0.90	0.66	-8.79
2,545.00	5.81	280.30	2,543.48	-0.95	-7.47	1.73	1.50	0.62	-15.10
2,722.00	5.03	271.00	2,719.69	0.79	-24.04	1.77	0.66	-0.44	-5.25
2,900.00	5.27	268.86	2,896.97	0.77	-40.02	3.50	0.17	0.13	-1.20
3,077.00	5.40	267.84	3,073.20	0.29	-56.47	5.72	0.09	0.07	-0.58
3,255.00	5.88	269.43	3,250.34	-0.12	-73.95	7.99	0.28	0.27	0.89
3,432.00	5.11	268.81	3,426.53	-0.37	-90.90	10.04	0.44	-0.44	-0.35
3,609.00	4.87	268.06	3,602.86	-0.79	-106.29	12.10	0.14	-0.14	-0.42
3,787.00	4.48	276.34	3,780.26	-0.26	-120.75	13.13	0.44	-0.22	4.65
3,965.00	4.52	280.13	3,957.72	1.73	-134.57	12.61	0.17	0.02	2.13
4,142.00	4.06	274.10	4,134.22	3.40	-147.68	12.34	0.36	-0.26	-3.41
4,320.00	3.75	269.05	4,311.81	3.75	-159.79	13.27	0.26	-0.17	-2.84
4,497.00	3.58	249.64	4,488.45	1.74	-170.76	16.45	0.70	-0.10	-10.97
4,590.00	3.76	250.16	4,581.26	-0.31	-176.35	19.08	0.20	0.19	0.56
4,777.00	3.87	265.84	4,767.85	-2.85	-188.41	22.89	0.56	0.06	8.39
4,955.00	4.26	287.94	4,945.42	-1.25	-200.69	22.60	0.90	0.22	12.42
5,132.00	4.23	291.24	5,121.93	3.14	-213.03	19.55	0.14	-0.02	1.86
5,309.00	4.21	289.45	5,298.45	7.67	-225.24	16.35	0.08	-0.01	-1.01
5,486.00	4.26	292.44	5,474.97	12.34	-237.44	13.00	0.13	0.03	1.69
5,664.00	4.14	286.92	5,652.49	16.74	-249.70	9.94	0.24	-0.07	-3.10
5,841.00	3.95	287.85	5,829.05	20.46	-261.61	7.50	0.11	-0.11	0.53
6,018.00	4.67	282.96	6,005.55	23.95	-274.44	5.40	0.46	0.41	-2.76
6,195.00	4.61	279.89	6,181.97	26.79	-288.47	4.07	0.14	-0.03	-1.73
6,373.00	4.17	279.35	6,359.45	29.07	-301.90	3.23	0.25	-0.25	-0.30
6,550.00	4.80	273.49	6,535.90	30.56	-315.64	3.21	0.44	0.36	-3.31
6,728.00	4.98	271.71	6,713.26	31.25	-330.80	4.14	0.13	0.10	-1.00
6,905.00	4.43	268.88	6,889.66	31.34	-345.31	5.59	0.34	-0.31	-1.80
7,082.00	5.56	269.25	7,065.98	31.10	-360.72	7.47	0.64	0.64	0.21
7,260.00	5.00	267.02	7,243.23	30.58	-377.09	9.73	0.34	-0.31	-1.25
7,437.00	5.45	276.48	7,419.50	31.13	-393.15	10.89	0.55	0.25	5.34
7,614.00	5.01	267.48	7,595.76	31.74	-409.22	12.00	0.53	-0.25	-5.08
7,791.00	4.83	277.41	7,772.11	32.36	-424.33	12.99	0.49	-0.10	5.61
7,968.00	4.62	269.88	7,948.51	33.30	-438.85	13.59	0.37	-0.12	-4.25
8,146.00	5.39	271.08	8,125.83	33.45	-454.38	15.11	0.44	0.43	0.67
8,323.00	4.76	276.43	8,302.14	34.43	-469.98	15.79	0.44	-0.36	3.02
8,500.00	3.85	272.15	8,478.64	35.47	-483.22	16.16	0.54	-0.51	-2.42
8,580.00	3.31	270.40	8,558.48	35.59	-488.21	16.58	0.69	-0.68	-2.19
8,655.00	5.01	248.01	8,633.29	34.38	-493.42	18.34	3.09	2.27	-29.85
8,700.00	11.74	229.94	8,677.79	30.69	-498.75	22.57	15.88	14.96	-40.16



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8,744.00	19.19	221.39	8,720.17	22.37	-506.97	31.72	17.66	16.93	-19.43
8,788.00	27.82	215.62	8,760.49	8.57	-517.75	46.58	20.28	19.61	-13.11
8,832.00	33.49	208.86	8,798.33	-10.43	-529.60	66.74	15.06	12.89	-15.36
8,877.00	38.72	205.35	8,834.68	-34.04	-541.63	91.50	12.49	11.62	-7.80
8,921.00	42.65	202.06	8,868.04	-60.30	-553.13	118.83	10.17	8.93	-7.48
8,965.00	46.22	198.18	8,899.46	-89.22	-563.69	148.71	10.19	8.11	-8.82
9,009.00	48.56	192.90	8,929.26	-120.41	-572.33	180.64	10.31	5.32	-12.00
9,054.00	49.89	187.18	8,958.66	-153.94	-578.25	214.61	10.07	2.96	-12.71
9,098.00	50.79	181.33	8,986.76	-187.69	-580.75	248.44	10.44	2.05	-13.30
9,143.00	53.51	178.30	9,014.37	-223.21	-580.62	283.75	8.05	6.04	-6.73
9,187.00	56.48	177.51	9,039.61	-259.23	-579.30	319.41	6.91	6.75	-1.80
9,231.00	60.30	177.83	9,062.67	-296.66	-577.77	356.47	8.70	6.68	0.73
9,276.00	65.37	178.13	9,083.21	-336.66	-576.37	396.09	11.28	11.27	0.67
9,320.00	72.04	178.76	9,099.18	-377.62	-575.26	436.70	15.22	15.16	1.43
9,364.00	79.61	177.20	9,109.94	-420.22	-573.75	478.90	17.54	17.20	-3.55
9,381.00	81.87	176.80	9,112.68	-436.97	-572.87	495.46	13.50	13.29	-2.35
9,425.00	86.56	175.77	9,117.11	-480.64	-570.03	538.58	10.91	10.66	-2.34
9,469.00	86.64	175.48	9,119.72	-524.44	-566.68	581.77	0.68	0.18	-0.66
9,558.00	90.00	177.40	9,122.33	-613.21	-561.16	669.45	4.35	3.78	2.16
9,647.00	90.86	177.60	9,121.66	-702.12	-557.28	757.45	0.99	0.97	0.22
9,735.00	91.87	177.51	9,119.57	-790.01	-553.52	844.44	1.15	1.15	-0.10
9,824.00	90.92	178.43	9,117.40	-878.93	-550.37	932.52	1.49	-1.07	1.03
9,913.00	90.17	178.72	9,116.55	-967.90	-548.16	1,020.75	0.90	-0.84	0.33
10,001.00	89.78	177.97	9,116.59	-1,055.86	-545.62	1,107.94	0.96	-0.44	-0.85
10,090.00	90.81	177.39	9,116.13	-1,144.79	-542.02	1,195.97	1.33	1.16	-0.65
10,178.00	89.16	177.79	9,116.16	-1,232.70	-538.32	1,283.00	1.93	-1.88	0.45
10,267.00	89.05	178.38	9,117.55	-1,321.64	-535.34	1,371.12	0.67	-0.12	0.66
10,356.00	89.02	177.62	9,119.05	-1,410.58	-532.24	1,459.21	0.85	-0.03	-0.85
10,444.00	88.49	176.68	9,120.96	-1,498.44	-527.86	1,546.12	1.23	-0.60	-1.07
10,533.00	89.36	178.30	9,122.63	-1,587.34	-523.97	1,634.09	2.07	0.98	1.82
10,622.00	89.53	178.10	9,123.49	-1,676.29	-521.17	1,722.24	0.29	0.19	-0.22
10,710.00	90.14	177.83	9,123.74	-1,764.24	-518.05	1,809.35	0.76	0.69	-0.31
10,799.00	90.59	180.79	9,123.18	-1,853.22	-516.97	1,897.72	3.36	0.51	3.33
10,888.00	91.23	184.77	9,121.76	-1,942.08	-521.29	1,986.54	4.53	0.72	4.47
10,976.00	89.75	184.64	9,121.01	-2,029.78	-528.51	2,074.50	1.69	-1.68	-0.15
11,065.00	87.62	181.70	9,123.05	-2,118.61	-533.43	2,163.35	4.08	-2.39	-3.30
11,154.00	87.71	181.62	9,126.68	-2,207.49	-536.00	2,252.01	0.14	0.10	-0.09
11,243.00	88.80	180.85	9,129.39	-2,296.43	-537.92	2,340.64	1.50	1.22	-0.87
11,331.00	88.74	180.19	9,131.28	-2,384.41	-538.72	2,428.20	0.75	-0.07	-0.75
11,420.00	89.50	180.14	9,132.65	-2,473.40	-538.97	2,516.71	0.86	0.85	-0.06
11,509.00	90.76	180.16	9,132.43	-2,562.39	-539.21	2,605.23	1.44	1.44	0.02
11,598.00	91.37	179.78	9,130.76	-2,651.38	-539.16	2,693.70	0.79	0.66	-0.43
11,686.00	92.91	179.78	9,127.47	-2,739.31	-538.62	2,781.10	1.75	1.75	0.00



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11,775.00	94.34	179.59	9,121.85	-2,828.13	-538.34	2,869.36	1.62	1.61	-0.21
11,863.00	93.67	180.13	9,115.70	-2,915.91	-538.12	2,956.63	0.98	-0.76	0.61
11,952.00	90.86	181.32	9,112.18	-3,004.83	-539.25	3,045.15	3.43	-3.16	1.34
12,041.00	90.56	181.52	9,111.08	-3,093.79	-541.45	3,133.85	0.41	-0.34	0.22
12,129.00	91.12	180.57	9,109.79	-3,181.77	-543.06	3,221.49	1.25	0.64	-1.08
12,218.00	91.93	180.26	9,107.42	-3,270.73	-543.70	3,310.02	0.97	0.91	-0.35
12,306.00	92.04	180.34	9,104.37	-3,358.68	-544.16	3,397.52	0.15	0.13	0.09
12,395.00	93.14	180.05	9,100.35	-3,447.59	-544.46	3,485.95	1.28	1.24	-0.33
12,483.00	92.86	179.50	9,095.74	-3,535.46	-544.12	3,573.29	0.70	-0.32	-0.63
12,572.00	91.68	178.15	9,092.22	-3,624.37	-542.30	3,661.50	2.01	-1.33	-1.52
12,660.00	90.98	178.19	9,090.16	-3,712.30	-539.49	3,748.64	0.80	-0.80	0.05
12,749.00	90.14	177.49	9,089.31	-3,801.23	-536.13	3,836.70	1.23	-0.94	-0.79
12,838.00	89.02	177.86	9,089.96	-3,890.16	-532.52	3,924.74	1.33	-1.26	0.42
12,926.00	88.41	176.66	9,081.93	-3,978.03	-528.32	4,011.67	1.53	-0.69	-1.36
13,015.00	89.24	176.34	9,093.76	-4,066.85	-522.88	4,099.40	1.00	0.93	-0.36
13,104.00	90.14	177.03	9,094.24	-4,155.69	-517.74	4,187.19	1.27	1.01	0.78
13,192.00	91.07	178.91	9,093.31	-4,243.63	-514.62	4,274.30	2.38	1.06	2.14
13,281.00	89.91	179.94	9,092.55	-4,332.62	-513.73	4,362.89	1.74	-1.30	1.16
13,369.00	89.61	180.23	9,092.92	-4,420.62	-513.86	4,450.20	0.47	-0.34	0.33
13,458.00	90.34	180.03	9,092.96	-4,509.62	-514.06	4,538.71	0.85	0.82	-0.22
13,547.00	90.73	180.26	9,092.13	-4,598.61	-514.29	4,627.23	0.51	0.44	0.26
13,636.00	91.60	179.71	9,090.32	-4,687.59	-514.26	4,715.70	1.16	0.98	-0.62
13,724.00	93.02	179.20	9,086.77	-4,775.51	-513.43	4,803.03	1.71	1.61	-0.58
13,771.00	93.39	178.76	9,084.14	-4,822.43	-512.59	4,849.60	1.22	0.79	-0.94
Final Phoenix Survey									
13,830.00	93.39	178.76	9,080.65	-4,881.32	-511.32	4,908.01	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
152.00	152.00	-0.85	0.61	First Phoenix Survey
13,771.00	9,084.14	-4,822.43	-512.59	Final Phoenix Survey
13,830.00	9,080.65	-4,881.32	-511.32	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Exhibit A-1

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-3283 Fax: (575) 748-9720
District III
1000 Rio Nazcon Road, Artesia, NM 88210
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42661	² Pool Code 97955	³ Pool Name WC-025 5-06 3263319P.B5
⁴ Property Code 313896	⁵ Property Name SALADO DRAW 19 26 33 FED	
⁶ GRID No. 4323	⁷ Operator Name CHEVRON U.S.A. INC.	⁸ Well Number 1H
		⁹ Elevation 3176'

¹⁰ 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/1	19	26 SOUTH	33 EAST, N.M.P.M.		200'	NORTH	898'	WEST	LEA

¹¹ 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
X4	19	26 SOUTH	33 EAST, N.M.P.M.		280'	SOUTH	355'	WEST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

SALADO DRAW 19 26 33 FED 1H WELL X= 722,147 NAD 27 Y= 377,410 LAT. 32.035588 LONG. 103.816450 X= 763,394 NAD83 Y= 377,467 LAT. 32.035713 LONG. 103.816919 ELEVATION +3176' NAVD88	17 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 undivided 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 an undivided or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Cindy Herrera-Murillo</u> Date: <u>9-10-14</u> Printed Name: <u>Cindy Herrera-Murillo</u> E-mail Address: <u>Cherrcramurillo@chevron.com</u>
	18 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 of Survey: <u>5.6.14</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>15078</u>

JUL 07 2015

CHEVRON USA INC 1616 W. BENDER BLVD HOBBS, NM 88240		4323
		³ Reason for Filing Code/ Effective Date NEW COMPLETION
⁴ API Number 30 - 025-42661	⁵ Pool Name WC-025 G-06 S263319;BONE SPRING	⁶ Pool Code 97955
⁷ Property Code 313896	⁸ Property Name SALADO DRAW 19 26 33 FEDERAL	⁹ Well Number #1H

II. ¹⁰ Surface Location

Ul or lot no. D	Section 19	Township 26S	Range 33E	Lot Idn 1	Feet from the 200	North/South Line NORTH	Feet from the 898	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. M	Section 19	Township 26S	Range 33E	Lot Idn 4	Feet from the 280	North/South line SOUTH	Feet from the 355	East/West line WEST	County LEA
¹² Lse Code F	¹³ Producing Method Code FLOW	¹⁴ Gas Connection Date 04/15/2016	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	WESTERN REFINARY	O
	ANADARKO	G

IV. Well Completion Data

²¹ Spud Date 07/14/2015	²² Ready Date 04/15/2016	²³ TD 13,830	²⁴ PBTD 13,720	²⁵ Perforations 9420 - 13,642	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13 3/8 H-40	856'	1006 SX		
12, 1/4	9 5/8 K-55	4638'	1507 SX		
8 3/4	5 1/2 P-110	13,830'	1678 SX		
PACKER	2 7/8	8648'			

V. Well Test Data

³¹ Date New Oil 04/15/2016	³² Gas Delivery Date 04/15/2016	³³ Test Date	³⁴ Test Length 24 HR	³⁵ Tbg. Pressure PSI	³⁶ Csg. Pressure
³⁷ Choke Size 28/64	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method FLOWING

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Cindy Herrera-Murillo*

Printed name:
CINDY HERRERA-MURILLO

Title:
PERMITTING SPECIALIST

E-mail Address:

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: