

Results of Directional Survey

API number:	30-025-41885		
OGRID:		Operator:	OXY USA INC
		Property:	RED TANK 31 STATE # 5H

surface	ULSTR:	A	31	T 22S	R 33E
				660 FNL	150 FEL

BH Loc	ULSTR:	D	31	T 22S	R 33E
15423	MD	10755.5	TVD	657 FNL	280 FWL
					4876 FEL

Top Perf/OH	ULSTR:	A	31	T 22S	R 33E
11056	MD	10826.3	TVD	657 FNL	629 FEL

Bot Perf/OH	ULSTR:	D	31	T 22S	R 33E
15276	MD	10756.1	TVD	658 FNL	312 FWL
					4844 FEL

5156

	MD	N/S	E/W	VD
	11031.00	2.78	-454.80	10821.74
TOP PERFS/OH ↓	11056.00	3.45	-479.38	10826.27
	11063.00	3.64	-486.26	10827.54
	15187.00	1.50	-4604.90	10757.56
BOT PERFS/OH ↓	15276.00	2.38	-4693.88	10756.10
	15282.00	2.44	-4699.88	10756.00

NEXT TO LAST	15353.00	2.87	-4770.83	10753.26
LAST READING	15243.00	3.28	-4840.74	10749.76
TD	15423.00	2.61	-4726.34	10755.49

Surface Location	660	FN	150	FE
Projected BHL	657	FN	4876	FE
Location of				
Top Perfs/OH	657	FN	629	FE
Bottom Perfs/OH	658	FN	4844	FE

SUMMARY of Subsurface Locations

Surface Location	A-31-22S-33E	660	FN	150	FE	Vert. Depth
Top Perfs/OH	A-31-22S-33E	657	FN	629	FE	10826.27
Bottom Perfs/OH	D-31-22S-33E	658	FN	4844	FE	10756.10
Projected TD	D-31-22S-33E	657	FN	4876	FE	10755.49

JAN 13 2015

HOBBSOCD

DEC 26 2014

RECEIVED



Weatherford

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: September 9, 2014

Attention: Chan Tysor

Re: Occidental Permian Ltd
Well: Red tank 31 #5H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Trace McGuffey MWD Supervisor	5H	188' MD 15353' MD	7-9-2014 8-18-2014	Measurement While Drilling

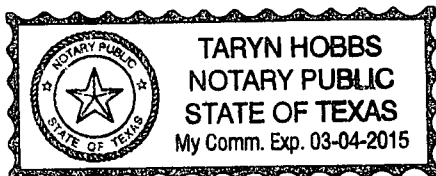
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 1st day of October, 2014, before me a notary public, the undersigned officer, personally appeared Jesus Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



5D Survey Report

OXY USA

Field Name: *Lea Co. (NAD27 NME)*
Site Name: *Red Tank 31 State #5H*
Well Name: *Red tank 31 State #5H Lateral*
Survey: *Definitive Survey*

19 August 2014



Red tank 31 State #5H Lateral

Field Name Lea Co. (NAD27 NME)	Map Units : US ft Vertical Reference Datum (VRD) : Mean Sea Level Projected Coordinate System : NAD27 / New Mexico East Comment :	Company Name : OXY USA
Site Name Red Tank 31 State #5H	Units : US ft North Reference : Grid Convergence Angle : 0.39 Position Northing : 493134.40 US ft Latitude : 32° 21' 13.06" Easting : 725516.10 US ft Longitude : -103° 36' 10.95" Elevation above Mean Sea Level: 3716.50 US ft Comment :	
Slot Name Red Tank 31 State #5H	Position (Offsets relative to Site Centre) +N / -S : 0.00 US ft Northing : 493134.40 US ft Latitude : 32°21'13.06" +E / -W : 0.00 US ft Easting : 725516.10 US ft Longitude : -103°36'10.95" Slot TVD Reference : Ground Elevation Elevation above Mean Sea Level : 3716.50 US ft Comment :	
Well Name Red tank 31 State #5H Lateral	Type : Sidetrack UWI : Parent : Red Tank 31 State #5H Pilot Tie Point Method : MD Tie Point : 9297.00 US ft Rig Height Kelly Bushing : 25.00 US ft Comment : Relative to Mean Sea Level: 3741.50 US ft Closure Distance : 4840.74 US ft Closure Azimuth : 270.039° Vertical Section (Position of Origin Relative to Site) +N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 269.69°	

Target Set

Name : Red Tank 31 State **Number of Targets :** 1
 #5H Tgt

Comment :

Target Name: PBHL Shape: Cuboid	Position (Relative to Site centre) +N / -S : -26.42 US ft Northing : 493107.98 US ft Latitude : 32°21'13.12" +E / -W : -4840.75 US ft Easting : 720675.35 US ft Longitude : -103°37'7.38" TVD (Kelly Bushing) : 10760.00 US ft Orientation Azimuth : 0.00° Inclination : 0.00° Dimensions Length : 0.00 US ft Breadth : 0.00 US ft Height : 0.00 US ft
--	--

Survey Name : Definitive Survey

Date : 07/Aug/2014	Survey Tool :	Comment :	Company :
---------------------------	----------------------	------------------	------------------

Magnetic Model			
Model Name: Default	Date: 12/Feb/2014	Field Strength: 50000.0 nT	Declination: 0.00° Dip: 0.00°

5D Survey Report

Survey Tool Ranges			
Name	Start MD (us ft)	End MD (us ft)	Source Survey
MWD	9297.00	15423.00	Lateral Svys

Well path created using minimum curvature

Survey Points (Relative to Site centre, TWD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
0.00	0.00	0.00	0.00	0.00	0.00	-0.00	0.00	493134.40	725516.10	MWD (WFT MWD)	
188.00	0.43	319.96	188.00	0.54	-0.45	0.45	0.23	493134.94	725515.65	MWD (WFT MWD)	
373.00	0.30	314.64	372.99	1.41	-1.25	1.24	0.07	493135.81	725514.85	MWD (WFT MWD)	
403.00	0.30	345.07	402.99	1.54	-1.32	1.31	0.52	493135.94	725514.78	MWD (WFT MWD)	
495.00	0.56	322.70	494.99	2.13	-1.66	1.64	0.33	493136.53	725514.44	MWD (WFT MWD)	
651.00	0.56	346.14	650.98	3.48	-2.30	2.28	0.15	493137.88	725513.80	MWD (WFT MWD)	
777.00	0.85	346.09	776.97	4.98	-2.67	2.65	0.23	493139.38	725513.43	MWD (WFT MWD)	
871.00	0.74	344.20	870.97	6.25	-3.01	2.97	0.12	493140.65	725513.09	MWD (WFT MWD)	
965.00	0.91	344.54	964.96	7.55	-3.37	3.33	0.18	493141.95	725512.73	MWD (WFT MWD)	
1060.00	1.04	350.56	1059.94	9.13	-3.71	3.66	0.17	493143.53	725512.39	MWD (WFT MWD)	
1150.00	1.26	358.42	1149.92	10.92	-3.87	3.81	0.30	493145.32	725512.23	MWD (WFT MWD)	
1243.00	1.22	353.66	1242.90	12.93	-4.01	3.94	0.12	493147.33	725512.09	MWD (WFT MWD)	
1337.00	1.01	344.46	1336.88	14.72	-4.34	4.26	0.29	493149.12	725511.76	MWD (WFT MWD)	
1432.00	1.03	347.68	1431.87	16.36	-4.75	4.66	0.06	493150.76	725511.35	MWD (WFT MWD)	
1526.00	0.98	348.92	1525.85	17.98	-5.08	4.99	0.06	493152.38	725511.02	MWD (WFT MWD)	
1621.00	0.78	347.49	1620.84	19.40	-5.38	5.28	0.21	493153.80	725510.72	MWD (WFT MWD)	
1715.00	0.60	331.68	1714.84	20.46	-5.75	5.64	0.28	493154.86	725510.35	MWD (WFT MWD)	
1810.00	0.55	321.93	1809.83	21.26	-6.27	6.15	0.12	493155.66	725509.83	MWD (WFT MWD)	
1904.00	0.55	311.00	1903.83	21.91	-6.89	6.77	0.11	493156.31	725509.21	MWD (WFT MWD)	
1999.00	0.66	312.29	1998.82	22.58	-7.64	7.52	0.12	493156.98	725508.46	MWD (WFT MWD)	
2093.00	0.71	318.33	2092.82	23.38	-8.43	8.30	0.09	493157.78	725507.67	MWD (WFT MWD)	
2188.00	0.28	329.30	2187.81	24.02	-8.94	8.80	0.46	493158.42	725507.16	MWD (WFT MWD)	
2282.00	0.22	321.22	2281.81	24.35	-9.17	9.03	0.07	493158.75	725506.93	MWD (WFT MWD)	
2377.00	0.10	34.82	2376.81	24.56	-9.23	9.10	0.23	493158.96	725506.87	MWD (WFT MWD)	
2471.00	0.25	20.80	2470.81	24.82	-9.11	8.98	0.16	493159.22	725506.99	MWD (WFT MWD)	
2566.00	0.22	8.44	2565.81	25.20	-9.01	8.88	0.06	493159.60	725507.09	MWD (WFT MWD)	
2660.00	0.35	63.45	2659.81	25.50	-8.73	8.59	0.31	493159.90	725507.37	MWD (WFT MWD)	
2755.00	0.47	52.33	2754.81	25.87	-8.16	8.02	0.15	493160.27	725507.94	MWD (WFT MWD)	
2849.00	0.43	96.86	2848.80	26.07	-7.51	7.36	0.36	493160.47	725508.59	MWD (WFT MWD)	
2944.00	0.66	92.41	2943.80	26.00	-6.60	6.46	0.25	493160.40	725509.50	MWD (WFT MWD)	
3038.00	0.90	78.12	3037.79	26.13	-5.34	5.20	0.33	493160.53	725510.76	MWD (WFT MWD)	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
3133.00	1.07	66.05	3132.78	26.64	-3.80	3.66	0.28	493161.04	725512.30	MWD (WFT MWD)	
3227.00	1.13	73.39	3226.76	27.26	-2.11	1.96	0.16	493161.66	725513.99	MWD (WFT MWD)	
3322.00	1.35	64.96	3321.74	28.01	-0.20	0.05	0.30	493162.41	725515.90	MWD (WFT MWD)	
3416.00	0.91	49.27	3415.72	28.96	1.37	-1.53	0.57	493163.36	725517.47	MWD (WFT MWD)	
3511.00	0.63	16.52	3510.71	29.95	2.09	-2.25	0.54	493164.35	725518.19	MWD (WFT MWD)	
3605.00	1.09	287.97	3604.70	30.73	1.39	-1.55	1.32	493165.13	725517.49	MWD (WFT MWD)	
3700.00	1.25	287.71	3699.68	31.32	-0.46	0.29	0.17	493165.72	725515.64	MWD (WFT MWD)	
3794.00	0.90	340.26	3793.67	32.33	-1.69	1.51	1.07	493166.73	725514.41	MWD (WFT MWD)	
3889.00	1.51	60.54	3888.65	33.64	-0.85	0.67	1.71	493168.04	725515.25	MWD (WFT MWD)	
3983.00	2.46	82.30	3982.60	34.52	2.23	-2.42	1.27	493168.92	725518.33	MWD (WFT MWD)	
4078.00	2.70	91.24	4077.50	34.75	6.49	-6.67	0.49	493169.15	725522.59	MWD (WFT MWD)	
4172.00	1.67	105.57	4171.43	34.33	10.02	-10.21	1.23	493168.73	725526.12	MWD (WFT MWD)	
4267.00	1.82	126.90	4266.39	33.06	12.56	-12.74	0.70	493167.46	725528.66	MWD (WFT MWD)	
4361.00	2.59	128.41	4360.32	30.84	15.42	-15.58	0.82	493165.24	725531.52	MWD (WFT MWD)	
4456.00	2.60	134.31	4455.22	28.00	18.64	-18.79	0.28	493162.40	725534.74	MWD (WFT MWD)	
4550.00	1.44	135.35	4549.16	25.67	21.00	-21.14	1.23	493160.07	725537.10	MWD (WFT MWD)	
4645.00	0.78	118.97	4644.14	24.51	22.40	-22.53	0.76	493158.91	725538.50	MWD (WFT MWD)	
4739.00	0.35	356.05	4738.14	24.49	22.94	-23.07	1.08	493158.89	725539.04	MWD (WFT MWD)	
4834.00	0.63	294.05	4833.14	24.99	22.45	-22.58	0.59	493159.39	725538.55	MWD (WFT MWD)	
4881.00	0.69	280.23	4880.13	25.14	21.93	-22.07	0.36	493159.54	725538.03	MWD (WFT MWD)	
4952.00	0.66	275.19	4951.13	25.26	21.10	-21.24	0.09	493159.66	725537.20	MWD (WFT MWD)	
5047.00	0.59	282.86	5046.12	25.41	20.08	-20.22	0.11	493159.81	725536.18	MWD (WFT MWD)	
5141.00	0.63	283.06	5140.12	25.64	19.11	-19.24	0.04	493160.04	725535.21	MWD (WFT MWD)	
5235.00	0.41	271.97	5234.11	25.77	18.27	-18.41	0.26	493160.17	725534.37	MWD (WFT MWD)	
5329.00	0.56	264.72	5328.11	25.74	17.47	-17.61	0.17	493160.14	725533.57	MWD (WFT MWD)	
5424.00	0.41	268.03	5423.11	25.68	16.67	-16.81	0.16	493160.08	725532.77	MWD (WFT MWD)	
5518.00	0.51	304.39	5517.10	25.91	15.99	-16.13	0.32	493160.31	725532.09	MWD (WFT MWD)	
5612.00	0.38	300.13	5611.10	26.30	15.37	-15.52	0.14	493160.70	725531.47	MWD (WFT MWD)	
5707.00	0.45	296.10	5706.10	26.62	14.77	-14.91	0.08	493161.02	725530.87	MWD (WFT MWD)	
5801.00	0.43	343.08	5800.10	27.12	14.33	-14.48	0.37	493161.52	725530.43	MWD (WFT MWD)	
5896.00	0.40	345.06	5895.09	27.78	14.14	-14.29	0.03	493162.18	725530.24	MWD (WFT MWD)	
5990.00	0.84	193.91	5989.09	27.43	13.89	-14.04	1.28	493161.83	725529.99	MWD (WFT MWD)	
6085.00	1.25	208.03	6084.08	25.84	13.24	-13.38	0.51	493160.24	725529.34	MWD (WFT MWD)	
6179.00	1.59	213.13	6178.05	23.84	12.04	-12.17	0.39	493158.24	725528.14	MWD (WFT MWD)	
6273.00	1.63	216.38	6272.01	21.68	10.54	-10.66	0.11	493156.08	725526.64	MWD (WFT MWD)	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
6368.00	1.80	214.54	6366.97	19.36	8.89	-9.00	0.19	493153.76	725524.99	MWD (WFT MWD)	
6462.00	0.70	228.60	6460.94	17.76	7.62	-7.72	1.21	493152.16	725523.72	MWD (WFT MWD)	
6557.00	0.75	255.50	6555.94	17.22	6.59	-6.68	0.36	493151.62	725522.69	MWD (WFT MWD)	
6651.00	0.85	237.07	6649.93	16.69	5.41	-5.50	0.29	493151.09	725521.51	MWD (WFT MWD)	
6746.00	0.91	249.09	6744.92	16.04	4.11	-4.20	0.20	493150.44	725520.21	MWD (WFT MWD)	
6840.00	0.94	228.04	6838.90	15.26	2.84	-2.92	0.36	493149.66	725518.94	MWD (WFT MWD)	
6935.00	0.80	232.87	6933.89	14.33	1.73	-1.81	0.17	493148.73	725517.83	MWD (WFT MWD)	
7029.00	0.71	240.87	7027.88	13.66	0.70	-0.77	0.15	493148.06	725516.80	MWD (WFT MWD)	
7124.00	0.91	239.73	7122.87	12.99	-0.47	0.40	0.21	493147.39	725515.63	MWD (WFT MWD)	
7218.00	0.66	232.60	7216.87	12.28	-1.54	1.48	0.29	493146.68	725514.56	MWD (WFT MWD)	
7313.00	1.01	240.17	7311.86	11.53	-2.70	2.64	0.39	493145.93	725513.40	MWD (WFT MWD)	
7407.00	0.75	232.24	7405.84	10.75	-3.91	3.85	0.30	493145.15	725512.19	MWD (WFT MWD)	
7502.00	0.82	238.23	7500.84	10.01	-4.98	4.92	0.11	493144.41	725511.12	MWD (WFT MWD)	
7596.00	0.85	232.72	7594.83	9.23	-6.10	6.05	0.09	493143.63	725510.00	MWD (WFT MWD)	
7691.00	0.89	228.58	7689.81	8.32	-7.22	7.17	0.08	493142.72	725508.88	MWD (WFT MWD)	
7785.00	0.84	228.23	7783.80	7.37	-8.28	8.24	0.05	493141.77	725507.82	MWD (WFT MWD)	
7880.00	1.12	208.12	7878.79	6.09	-9.24	9.20	0.46	493140.49	725506.86	MWD (WFT MWD)	
7974.00	1.26	208.09	7972.77	4.37	-10.16	10.13	0.15	493138.77	725505.94	MWD (WFT MWD)	
8069.00	1.26	192.57	8067.75	2.43	-10.88	10.86	0.36	493136.83	725505.22	MWD (WFT MWD)	
8163.00	1.14	187.47	8161.73	0.49	-11.22	11.22	0.17	493134.89	725504.88	MWD (WFT MWD)	
8258.00	1.50	195.59	8256.70	-1.64	-11.68	11.69	0.43	493132.76	725504.42	MWD (WFT MWD)	
8352.00	1.20	192.13	8350.68	-3.79	-12.22	12.24	0.33	493130.61	725503.88	MWD (WFT MWD)	
8447.00	0.66	210.24	8445.66	-5.24	-12.70	12.73	0.64	493129.16	725503.40	MWD (WFT MWD)	
8541.00	0.76	214.92	8539.66	-6.21	-13.33	13.36	0.12	493128.19	725502.77	MWD (WFT MWD)	
8635.00	0.64	165.63	8633.65	-7.23	-13.56	13.60	0.63	493127.17	725502.54	MWD (WFT MWD)	
8730.00	0.56	148.06	8728.64	-8.14	-13.18	13.22	0.21	493126.26	725502.92	MWD (WFT MWD)	
8824.00	0.51	89.93	8822.64	-8.53	-12.52	12.56	0.55	493125.87	725503.58	MWD (WFT MWD)	
8919.00	0.63	118.50	8917.64	-8.78	-11.64	11.68	0.32	493125.62	725504.46	MWD (WFT MWD)	
9013.00	1.11	151.61	9011.63	-9.83	-10.75	10.80	0.72	493124.57	725505.35	MWD (WFT MWD)	
9108.00	1.06	167.78	9106.61	-11.50	-10.13	10.19	0.33	493122.90	725505.97	MWD (WFT MWD)	
9202.00	1.01	176.65	9200.59	-13.17	-9.89	9.96	0.18	493121.23	725506.21	MWD (WFT MWD)	
9297.00	1.19	164.11	9295.58	-14.96	-9.57	9.66	0.32	493119.44	725506.53	MWD (WFT MWD)	2
9361.00	3.72	89.06	9359.52	-15.56	-7.32	7.40	5.63	493118.84	725508.78	MWD (Lateral Svys)	First Lateral Svy
9393.00	3.50	90.24	9391.46	-15.55	-5.30	5.39	0.73	493118.85	725510.80	MWD (Lateral Svys)	

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
9424.00	2.88	95.16	9422.41	-15.62	-3.58	3.66	2.18	493118.78	725512.52	MWD (Lateral Svys)	
9456.00	1.16	138.08	9454.39	-15.94	-2.56	2.65	6.81	493118.46	725513.54	MWD (Lateral Svys)	
9488.00	0.51	234.32	9486.39	-16.26	-2.46	2.55	4.12	493118.14	725513.64	MWD (Lateral Svys)	
9519.00	1.89	7.45	9517.38	-15.83	-2.51	2.59	7.32	493118.57	725513.59	MWD (Lateral Svys)	
9551.00	2.68	18.41	9549.36	-14.60	-2.20	2.28	2.81	493119.80	725513.90	MWD (Lateral Svys)	
9614.00	4.38	358.97	9612.24	-10.80	-1.78	1.84	3.26	493123.60	725514.32	MWD (Lateral Svys)	
9708.00	5.64	349.13	9705.88	-2.67	-2.72	2.73	1.62	493131.73	725513.38	MWD (Lateral Svys)	
9771.00	5.21	342.92	9768.60	3.10	-4.14	4.12	1.15	493137.50	725511.96	MWD (Lateral Svys)	
9802.00	5.06	342.41	9799.47	5.75	-4.97	4.94	0.51	493140.15	725511.13	MWD (Lateral Svys)	
9834.00	4.65	340.45	9831.36	8.32	-5.83	5.78	1.38	493142.72	725510.27	MWD (Lateral Svys)	
9865.00	4.14	338.36	9862.27	10.54	-6.66	6.60	1.72	493144.94	725509.44	MWD (Lateral Svys)	
9897.00	3.43	342.89	9894.20	12.53	-7.37	7.30	2.41	493146.93	725508.73	MWD (Lateral Svys)	
9928.00	2.49	0.09	9925.16	14.09	-7.64	7.56	4.14	493148.49	725508.46	MWD (Lateral Svys)	
9960.00	2.06	16.36	9957.13	15.34	-7.48	7.39	2.41	493149.74	725508.62	MWD (Lateral Svys)	
9991.00	1.77	0.84	9988.11	16.35	-7.31	7.22	1.91	493150.75	725508.79	MWD (Lateral Svys)	
10022.00	1.68	6.32	10019.10	17.28	-7.26	7.16	0.61	493151.68	725508.84	MWD (Lateral Svys)	
10054.00	0.91	21.67	10051.09	17.98	-7.11	7.01	2.62	493152.38	725508.99	MWD (Lateral Svys)	
10085.00	0.44	125.58	10082.09	18.14	-6.92	6.82	3.55	493152.54	725509.18	MWD (Lateral Svys)	
10123.00	0.63	199.82	10120.09	17.86	-6.87	6.78	1.75	493152.26	725509.23	MWD (Lateral Svys)	
10154.00	2.08	243.82	10151.08	17.45	-7.44	7.34	5.43	493151.85	725508.66	MWD (Lateral Svys)	
10185.00	4.16	259.21	10182.03	16.99	-9.05	8.95	7.17	493151.39	725507.05	MWD (Lateral Svys)	
10217.00	6.26	265.50	10213.90	16.64	-11.93	11.84	6.79	493151.04	725504.17	MWD (Lateral Svys)	
10248.00	8.25	266.65	10244.65	16.38	-15.83	15.74	6.44	493150.78	725500.27	MWD (Lateral Svys)	
10282.00	9.90	266.07	10278.22	16.03	-21.18	21.10	4.86	493150.43	725494.92	MWD (Lateral Svys)	
10313.00	10.77	259.01	10308.72	15.30	-26.69	26.60	4.95	493149.70	725489.41	MWD (Lateral Svys)	
10376.00	13.92	258.70	10370.26	12.69	-39.90	39.83	5.00	493147.09	725476.20		

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
10470.00	18.67	260.90	10460.46	8.09	-65.86	65.81	5.09	493142.49	725450.24	MWD (Lateral Svys)	
10502.00	20.53	262.78	10490.60	6.58	-76.48	76.45	6.14	493140.98	725439.62	MWD (Lateral Svys)	
10565.00	25.13	263.90	10548.65	3.77	-100.76	100.73	7.33	493138.17	725415.34	MWD (Lateral Svys)	
10659.00	35.90	267.29	10629.52	0.33	-148.28	148.27	11.60	493134.73	725367.82	MWD (Lateral Svys)	
10754.00	45.35	270.05	10701.54	-0.96	-210.03	210.04	10.12	493133.44	725306.07	MWD (Lateral Svys)	
10848.00	58.41	270.54	10759.45	-0.55	-283.82	283.82	13.90	493133.85	725232.28	MWD (Lateral Svys)	
10880.00	62.91	271.26	10775.12	-0.11	-311.71	311.70	14.20	493134.29	725204.39	MWD (Lateral Svys)	
10911.00	67.39	271.28	10788.15	0.52	-339.82	339.82	14.45	493134.92	725176.28	MWD (Lateral Svys)	
10943.00	71.51	270.86	10799.38	1.07	-369.78	369.76	12.93	493135.47	725146.32	MWD (Lateral Svys)	
10974.00	74.07	270.76	10808.55	1.49	-399.38	399.37	8.26	493135.89	725116.72	MWD (Lateral Svys)	
11000.00	76.38	271.43	10815.18	1.97	-424.52	424.50	9.23	493136.37	725091.58	MWD (Lateral Svys)	
11031.00	79.17	271.62	10821.74	2.78	-454.80	454.78	9.02	493137.18	725061.30	MWD (Lateral Svys)	
11063.00	79.94	271.50	10827.54	3.64	-486.26	486.23	2.43	493138.04	725029.84	MWD (Lateral Svys)	
11094.00	80.79	271.45	10832.73	4.42	-516.81	516.78	2.75	493138.82	724999.29	MWD (Lateral Svys)	
11126.00	81.01	271.33	10837.79	5.19	-548.40	548.36	0.78	493139.59	724967.70	MWD (Lateral Svys)	
11189.00	84.25	270.72	10845.87	6.31	-610.86	610.82	5.23	493140.71	724905.24	MWD (Lateral Svys)	
11220.00	86.71	270.36	10848.32	6.60	-641.76	641.71	8.02	493141.00	724874.34	MWD (Lateral Svys)	
11252.00	90.42	269.57	10849.12	6.58	-673.74	673.70	11.85	493140.98	724842.36	MWD (Lateral Svys)	
11315.00	91.40	268.95	10848.12	5.76	-736.73	736.69	1.84	493140.16	724779.37	MWD (Lateral Svys)	
11409.00	92.45	268.47	10844.96	3.65	-830.65	830.62	1.23	493138.05	724685.45	MWD (Lateral Svys)	
11504.00	93.01	268.95	10840.43	1.51	-925.52	925.50	0.78	493135.91	724590.58	MWD (Lateral Svys)	
11597.00	92.24	270.59	10836.17	1.14	-1018.42	1018.39	1.95	493135.54	724497.68	MWD (Lateral Svys)	
11692.00	93.29	270.76	10831.59	2.26	-1113.30	1113.27	1.12	493136.66	724402.80	MWD (Lateral Svys)	
11786.00	92.31	271.21	10827.00	3.87	-1207.17	1207.13	1.15	493138.27	724308.93	MWD (Lateral Svys)	
11881.00	90.35	272.10	10824.80	6.62	-1302.10	1302.04	2.27	493141.02	724214.00		

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
11975.00	90.07	272.28	10824.45	10.21	-1396.03	1395.95	0.35	493144.61	724120.07	MWD (Lateral Svys)	
12070.00	90.98	271.54	10823.58	13.37	-1490.97	1490.88	1.23	493147.77	724025.13	MWD (Lateral Svys)	
12164.00	89.93	270.89	10822.83	15.37	-1584.94	1584.84	1.31	493149.77	723931.16	MWD (Lateral Svys)	
12259.00	90.21	270.37	10822.72	16.41	-1679.94	1679.82	0.62	493150.81	723836.16	MWD (Lateral Svys)	
12353.00	90.91	269.60	10821.80	16.39	-1773.93	1773.82	1.11	493150.79	723742.17	MWD (Lateral Svys)	
12448.00	90.84	268.13	10820.35	14.51	-1868.90	1868.79	1.55	493148.91	723647.20	MWD (Lateral Svys)	
12542.00	91.33	267.32	10818.57	10.77	-1962.81	1962.72	1.01	493145.17	723553.29	MWD (Lateral Svys)	
12637.00	91.75	266.90	10816.02	5.99	-2057.65	2057.59	0.63	493140.39	723458.45	MWD (Lateral Svys)	
12731.00	91.96	267.60	10812.97	1.48	-2151.49	2151.46	0.78	493135.88	723364.61	MWD (Lateral Svys)	
12825.00	89.93	268.51	10811.42	-1.71	-2245.42	2245.40	2.37	493132.69	723270.68	MWD (Lateral Svys)	
12920.00	89.30	268.93	10812.06	-3.83	-2340.40	2340.38	0.80	493130.57	723175.70	MWD (Lateral Svys)	
13014.00	89.86	267.21	10812.75	-7.00	-2434.34	2434.34	1.92	493127.40	723081.76	MWD (Lateral Svys)	
13108.00	90.21	265.67	10812.69	-12.83	-2528.15	2528.18	1.68	493121.57	722987.95	MWD (Lateral Svys)	
13203.00	90.28	267.32	10812.29	-18.64	-2622.97	2623.03	1.74	493115.76	722893.13	MWD (Lateral Svys)	
13297.00	90.49	267.85	10811.65	-22.60	-2716.88	2716.97	0.61	493111.80	722799.22	MWD (Lateral Svys)	
13392.00	93.08	269.48	10808.70	-24.82	-2811.80	2811.89	3.22	493109.58	722704.30	MWD (Lateral Svys)	
13486.00	93.43	268.50	10803.36	-26.47	-2905.63	2905.73	1.11	493107.93	722610.47	MWD (Lateral Svys)	
13581.00	91.75	269.25	10799.06	-28.33	-3000.51	3000.62	1.94	493106.07	722515.59	MWD (Lateral Svys)	
13675.00	90.63	269.42	10797.11	-29.42	-3094.49	3094.60	1.21	493104.98	722421.61	MWD (Lateral Svys)	
13770.00	91.40	269.45	10795.43	-30.36	-3189.46	3189.58	0.81	493104.04	722326.64	MWD (Lateral Svys)	
13864.00	90.63	270.11	10793.76	-30.72	-3283.45	3283.57	1.08	493103.68	722232.65	MWD (Lateral Svys)	
13958.00	91.89	269.53	10791.70	-31.02	-3377.42	3377.54	1.48	493103.38	722138.68	MWD (Lateral Svys)	
14053.00	91.33	270.67	10789.03	-30.85	-3472.38	3472.50	1.34	493103.55	722043.72	MWD (Lateral Svys)	
14147.00	92.10	270.83	10786.22	-29.62	-3566.33	3566.44	0.84	493104.78	721949.77	MWD (Lateral Svys)	
14242.00	93.08	270.56	10781.92	-28.47	-3661.23	3661.33	1.07	493105.93	721854.87		

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Survey Tool	Comment
14336.00	93.85	271.07	10776.24	-27.13	-3755.04	3755.14	0.98	493107.27	721761.06	MWD (Lateral Svys)	
14431.00	92.31	271.38	10771.14	-25.11	-3849.88	3849.96	1.65	493109.29	721666.22	MWD (Lateral Svys)	
14526.00	93.85	270.58	10766.03	-23.48	-3944.73	3944.80	1.83	493110.92	721571.37	MWD (Lateral Svys)	
14620.00	92.66	272.32	10760.70	-21.11	-4038.54	4038.60	2.24	493113.29	721477.56	MWD (Lateral Svys)	
14715.00	91.12	272.95	10757.56	-16.74	-4133.39	4133.42	1.75	493117.66	721382.71	MWD (Lateral Svys)	
14809.00	92.03	273.04	10754.98	-11.83	-4227.22	4227.22	0.97	493122.57	721288.88	MWD (Lateral Svys)	
14904.00	88.32	273.03	10754.69	-6.80	-4322.07	4322.04	3.91	493127.60	721194.03	MWD (Lateral Svys)	
14993.00	89.09	271.88	10756.70	-2.99	-4410.96	4410.92	1.55	493131.41	721105.14	MWD (Lateral Svys)	
15093.00	89.79	271.30	10757.68	-0.22	-4510.92	4510.85	0.91	493134.18	721005.18	MWD (Lateral Svys)	
15187.00	90.35	270.79	10757.56	1.50	-4604.90	4604.83	0.81	493135.90	720911.20	MWD (Lateral Svys)	
15282.00	91.54	270.35	10756.00	2.44	-4699.88	4699.80	1.34	493136.84	720816.22	MWD (Lateral Svys)	
15353.00	92.87	270.34	10753.26	2.87	-4770.83	4770.74	1.87	493137.27	720745.27	MWD (Lateral Svys)	Last WFT MWD
15423.00	92.87	270.34	10749.76	3.28	-4840.74	4840.65	0.00	493137.68	720675.36	MWD (Lateral Svys)	Proj to Bit

QXY USA INC.
Red Tank 31 State #5H
API No. 30-025-41885

2-7/8" Tbg & Pkr @ 9905'

1174sx @ 12270-9773'

