

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-41858
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name TEAL 12 STATE COM
8. Well Number 2H
9. OGRID Number 215099
10. Pool name or Wildcat SCHARB; BONE SPRING

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Cimarex Energy Co.

3. Address of Operator

600 N. MARIENFELD STREET, STE 600, MIDLAND, TX 79701

4. Well Location

Unit Letter N: 330 feet from the South line and 1980 feet from the West line

Section 12 Township 19S Range 34E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3955' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Completion ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Cimarex Energy respectfully requests approval to change the directional plan to the above well as follows:

Approved

KOP 10272' TVD
EOC 10750' TVD
TOE 11000' TVD

Proposed:

KOP 10372' TVD
EOC 10850' TVD
TOE 10780' TVD

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

SIGNATURE Hope Knauls TITLE Regulatory Tech DATE 8-19-2014

Type or print name Hope Knauls E-mail address: hknauls@cimarex.com PHONE: 918-295-1799

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 08/22/14
Conditions of Approval (if any):

AUG 22 2014



Cimarex Teal 12 State 2H Rev2 mcs 18Aug14 Proposal Geodetic Report

(Non-Def Plan)

Report Date: August 18, 2014 - 04:47 PM
Client: Cimarex
Field: NM Lea County (NAD 83)
Structure / Slot: Cimarex Teal 12 State 2H / Cimarex Teal 12 State 2H
Well: Cimarex Teal 12 State 2H
Borehole: Original Borehole
UWI / API#: Noram 26 / Unknown
Survey Name: Cimarex Teal 12 State 2H Rev2 mcs 18Aug14
Survey Date: November 06, 2013
Tort / AHD / DDI / ERD Ratio: 125.334 ° / 4784.228 ft / 5.927 / 0.441
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 40' 6.67289", W 103° 30' 57.43165"
Location Grid N/E Y/X: N 607907.200 RUS, E 792863.500 RUS
CRS Grid Convergence Angle: 0.4412 °
Grid Scale Factor: 0.99998154
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.495 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3980.000 ft above MSL
Seabed / Ground Elevation: 3955.000 ft above MSL
Magnetic Declination: 7.364 °
Total Gravity Field Strength: 998.7155mgm (9.80665 Based)
Gravity Model: DOX
Total Magnetic Field Strength: 48532.234 nT
Magnetic Dip Angle: 60.525 °
Declination Date: August 18, 2014
Magnetic Declination Model: BGGM 2014
North Reference: Grid North
Grid Convergence Used: 0.4412 °
Total Corr Mag North->Grid: 6.9224 °
North: Structure Reference Point
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
SHL	0.00	0.00	0.00	0.00	-3980.00	0.00	0.00	0.00	N/A	0.00	0.00	607907.20	792863.50	N 32 40	6.67 W 103 30 57.43
	58.00	0.88	12.29	58.00	-3922.00	0.43	0.44	0.09	1.52	12.29	0.45	607907.64	792863.59	N 32 40	6.68 W 103 30 57.43
	79.00	1.01	102.99	79.00	-3901.00	0.55	0.55	0.31	6.42	29.32	0.63	607907.75	792863.81	N 32 40	6.68 W 103 30 57.43
	110.00	1.10	172.25	109.99	-3870.01	0.19	0.19	0.62	3.88	72.44	0.65	607907.39	792864.12	N 32 40	6.67 W 103 30 57.42
	140.00	1.19	163.59	139.99	-3840.01	-0.40	-0.39	0.74	0.65	117.66	0.84	607906.81	792864.24	N 32 40	6.67 W 103 30 57.42
	170.00	1.10	351.68	169.98	-3810.02	-0.41	-0.40	0.79	7.61	117.07	0.89	607906.80	792864.29	N 32 40	6.67 W 103 30 57.42
	235.00	1.32	339.68	234.97	-3745.03	0.91	0.92	0.44	0.51	25.59	1.02	607908.12	792863.94	N 32 40	6.68 W 103 30 57.43
	295.00	1.32	338.76	294.95	-3685.05	2.21	2.21	-0.05	0.04	358.66	2.21	607909.41	792863.45	N 32 40	6.69 W 103 30 57.43
	355.00	1.19	342.18	354.94	-3625.06	3.45	3.45	-0.49	0.25	351.86	3.48	607910.65	792863.01	N 32 40	6.71 W 103 30 57.44
	415.00	1.41	342.76	414.92	-3565.08	4.75	4.74	-0.90	0.37	349.23	4.83	607911.94	792862.60	N 32 40	6.72 W 103 30 57.44
	474.00	1.19	339.99	473.91	-3506.09	6.02	6.01	-1.33	0.39	347.56	6.16	607913.21	792862.17	N 32 40	6.73 W 103 30 57.45
	535.00	1.10	349.66	534.90	-3445.10	7.20	7.18	-1.65	0.35	347.07	7.37	607914.38	792861.85	N 32 40	6.74 W 103 30 57.45
	626.00	1.01	349.96	625.88	-3354.12	8.85	8.83	-1.95	0.10	347.58	9.04	607916.03	792861.55	N 32 40	6.76 W 103 30 57.45
	719.00	0.88	348.38	718.87	-3261.13	10.36	10.34	-2.23	0.14	347.82	10.58	607917.54	792861.27	N 32 40	6.78 W 103 30 57.46
	809.00	0.62	341.17	808.86	-3171.14	11.50	11.48	-2.53	0.31	347.58	11.75	607918.68	792860.97	N 32 40	6.79 W 103 30 57.46
	899.00	0.70	322.85	898.85	-3081.15	12.40	12.38	-3.02	0.25	346.30	12.74	607919.58	792860.48	N 32 40	6.80 W 103 30 57.47
	989.00	0.70	344.78	988.85	-2991.15	13.38	13.35	-3.49	0.30	345.33	13.80	607920.55	792860.01	N 32 40	6.81 W 103 30 57.47
	1084.00	0.62	346.05	1083.84	-2896.16	14.44	14.40	-3.77	0.09	345.33	14.89	607921.60	792859.73	N 32 40	6.82 W 103 30 57.47
	1179.00	0.48	342.27	1178.84	-2801.16	15.32	15.28	-4.02	0.15	345.28	15.80	607922.48	792859.48	N 32 40	6.82 W 103 30 57.48
	1274.00	0.40	334.76	1273.83	-2706.17	16.00	15.96	-4.28	0.10	345.00	16.52	607923.16	792859.22	N 32 40	6.83 W 103 30 57.48
	1368.00	0.22	12.07	1367.83	-2612.17	16.47	16.43	-4.38	0.28	345.08	17.01	607923.63	792859.12	N 32 40	6.84 W 103 30 57.48
	1461.00	0.09	329.26	1460.83	-2519.17	16.71	16.67	-4.38	0.18	345.28	17.24	607923.87	792859.12	N 32 40	6.84 W 103 30 57.48
	1555.00	0.09	303.38	1554.83	-2425.17	16.81	16.78	-4.48	0.04	345.05	17.36	607923.98	792859.02	N 32 40	6.84 W 103 30 57.48
	1641.00	0.31	246.47	1640.83	-2339.17	16.76	16.72	-4.75	0.32	344.14	17.38	607923.92	792858.75	N 32 40	6.84 W 103 30 57.49
	1726.00	0.09	5.97	1725.83	-2254.17	16.74	16.69	-4.95	0.43	343.48	17.41	607923.89	792858.55	N 32 40	6.84 W 103 30 57.49
	1838.00	0.09	214.26	1837.83	-2142.17	16.75	16.71	-4.99	0.16	343.36	17.44	607923.91	792858.51	N 32 40	6.84 W 103 30 57.49
	1933.00	0.09	6.93	1932.83	-2047.17	16.77	16.72	-5.03	0.18	343.27	17.46	607923.92	792858.47	N 32 40	6.84 W 103 30 57.49
	2028.00	0.31	184.07	2027.83	-1952.17	16.58	16.54	-5.04	0.42	343.07	17.29	607923.74	792858.46	N 32 40	6.84 W 103 30 57.49
	2122.00	0.09	171.85	2121.83	-1858.17	16.26	16.21	-5.04	0.24	342.72	16.98	607923.41	792858.46	N 32 40	6.83 W 103 30 57.49
	2216.00	0.22	177.87	2215.83	-1764.17	16.00	15.96	-5.03	0.14	342.52	16.73	607923.16	792858.47	N 32 40	6.83 W 103 30 57.49
	2310.00	0.31	150.45	2309.83	-1670.17	15.60	15.56	-4.89	0.16	342.54	16.31	607922.76	792858.61	N 32 40	6.83 W 103 30 57.49
	2404.00	0.31	162.76	2403.83	-1576.17	15.13	15.09	-4.69	0.07	342.73	15.81	607922.29	792858.81	N 32 40	6.82 W 103 30 57.49
	2498.00	0.40	177.17	2497.83	-1482.17	14.56	14.52	-4.60	0.13	342.42	15.23	607921.72	792858.90	N 32 40	6.82 W 103 30 57.48
	2590.00	0.09	196.55	2589.83	-1390.17	14.17	14.13	-4.61	0.34	341.95	14.86	607921.33	792858.89	N 32 40	6.81 W 103 30 57.48
	2686.00	0.48	182.75	2685.82	-1294.18	13.70	13.66	-4.65	0.41	341.21	14.43	607920.86	792858.85	N 32 40	6.81 W 103 30 57.48
	2779.00	0.40	166.36	2778.82	-1201.18	12.99	12.95	-4.59	0.16	340.49	13.74	607920.15	792858.91	N 32 40	6.80 W 103 30 57.48
	2874.00	0.22	142.45	2873.82	-1106.18	12.53	12.49	-4.40	0.23	340.59	13.24	607919.69	792859.10	N 32 40	6.80 W 103 30 57.48
	2976.00	0.31	100.65	2975.82	-1004.18	12.32	12.28	-4.01	0.20	341.92	12.92	607919.48	792859.49	N 32 40	6.79 W 103 30 57.48
	3061.00	0.40	97.45	3060.82	-919.18	12.23	12.20	-3.49	0.11	344.04	12.69	607919.40	792860.01	N 32 40	6.79 W 103 30 57.47

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	3155.00	0.48	102.77	3154.81	-825.19	12.09	12.07	-2.78	0.10	347.03	12.39	607919.27	792860.72	N 32 40 6.79	W 103 30 57.46
	3249.00	0.70	93.19	3248.81	-731.19	11.97	11.95	-1.82	0.26	351.33	12.09	607919.15	792861.68	N 32 40 6.79	W 103 30 57.45
	3349.00	0.79	82.69	3348.80	-631.20	12.01	12.01	-0.53	0.16	357.48	12.02	607919.21	792862.97	N 32 40 6.79	W 103 30 57.44
	3443.00	0.79	82.47	3442.79	-537.21	12.17	12.17	0.76	0.00	3.56	12.20	607919.37	792864.26	N 32 40 6.79	W 103 30 57.42
	3537.00	0.79	78.69	3536.78	-443.22	12.37	12.39	2.03	0.06	9.33	12.55	607919.58	792865.53	N 32 40 6.80	W 103 30 57.41
	3663.00	0.70	80.05	3662.77	-317.23	12.66	12.69	3.64	0.07	16.02	13.20	607919.89	792867.14	N 32 40 6.80	W 103 30 57.39
	4029.00	0.40	72.36	4028.75	48.75	13.40	13.46	7.06	0.08	27.69	15.20	607920.66	792870.56	N 32 40 6.81	W 103 30 57.35
	4124.00	0.40	82.47	4123.75	143.75	13.54	13.61	7.71	0.07	29.53	15.64	607920.81	792871.21	N 32 40 6.81	W 103 30 57.34
	4218.00	0.31	84.36	4217.75	237.75	13.60	13.67	8.29	0.10	31.22	15.99	607920.87	792871.79	N 32 40 6.81	W 103 30 57.33
	4313.00	0.31	55.97	4312.75	332.75	13.77	13.84	8.76	0.16	32.31	16.38	607921.04	792872.26	N 32 40 6.81	W 103 30 57.33
	4407.00	0.40	56.06	4406.75	426.75	14.09	14.17	9.24	0.10	33.11	16.91	607921.37	792872.74	N 32 40 6.81	W 103 30 57.32
	4501.00	0.22	29.38	4500.75	520.75	14.42	14.51	9.60	0.24	33.49	17.40	607921.71	792873.10	N 32 40 6.82	W 103 30 57.32
	4594.00	0.22	123.86	4593.75	613.75	14.48	14.56	9.84	0.35	34.03	17.57	607921.76	792873.33	N 32 40 6.82	W 103 30 57.32
	4691.00	0.70	139.95	4690.74	710.74	13.92	14.01	10.37	0.51	36.52	17.43	607921.21	792873.87	N 32 40 6.81	W 103 30 57.31
	4786.00	0.22	75.88	4785.74	805.74	13.51	13.61	10.92	0.67	38.75	17.45	607920.81	792874.42	N 32 40 6.81	W 103 30 57.30
	4880.00	0.22	74.47	4879.74	899.74	13.60	13.70	11.27	0.01	39.44	17.74	607920.90	792874.77	N 32 40 6.81	W 103 30 57.30
	4975.00	0.22	59.97	4974.74	994.74	13.74	13.84	11.60	0.06	39.98	18.06	607921.04	792875.10	N 32 40 6.81	W 103 30 57.29
	5068.00	0.31	65.55	5067.74	1087.74	13.93	14.03	11.99	0.10	40.50	18.46	607921.23	792875.49	N 32 40 6.81	W 103 30 57.29
	5162.00	0.31	102.07	5161.74	1181.74	13.98	14.09	12.47	0.21	41.51	18.81	607921.29	792875.97	N 32 40 6.81	W 103 30 57.28
	5256.00	0.22	90.38	5255.73	1275.73	13.92	14.03	12.90	0.11	42.59	19.06	607921.23	792876.40	N 32 40 6.81	W 103 30 57.28
	5351.00	0.22	42.96	5350.73	1370.73	14.05	14.16	13.20	0.19	42.99	19.36	607921.36	792876.70	N 32 40 6.81	W 103 30 57.28
	5447.00	0.22	60.45	5446.73	1466.73	14.27	14.39	13.49	0.07	43.15	19.72	607921.59	792876.99	N 32 40 6.81	W 103 30 57.27
	5541.00	0.40	54.26	5540.73	1560.73	14.55	14.67	13.91	0.19	43.48	20.22	607921.87	792877.41	N 32 40 6.82	W 103 30 57.27
	5636.00	0.40	38.48	5635.73	1655.73	15.00	15.12	14.39	0.12	43.57	20.87	607922.32	792877.89	N 32 40 6.82	W 103 30 57.26
	5730.00	0.40	68.27	5729.73	1749.73	15.37	15.50	14.90	0.22	43.86	21.50	607922.70	792878.40	N 32 40 6.83	W 103 30 57.26
	5824.00	0.48	65.99	5823.72	1843.72	15.65	15.78	15.56	0.09	44.59	22.16	607922.98	792879.06	N 32 40 6.83	W 103 30 57.25
	5918.00	0.88	61.37	5917.72	1937.72	16.14	16.29	16.55	0.43	45.46	23.23	607923.49	792880.05	N 32 40 6.83	W 103 30 57.24
	6012.00	1.10	79.48	6011.70	2031.70	16.64	16.80	18.08	0.40	47.09	24.68	607924.00	792881.58	N 32 40 6.84	W 103 30 57.22
	6107.00	1.41	80.75	6106.68	2126.68	16.98	17.15	20.13	0.33	49.56	26.44	607924.35	792883.63	N 32 40 6.84	W 103 30 57.19
	6200.00	1.32	74.38	6199.66	2219.66	17.43	17.63	22.29	0.19	51.66	28.41	607924.83	792885.79	N 32 40 6.85	W 103 30 57.17
	6295.00	1.32	77.46	6294.63	2314.63	17.94	18.16	24.41	0.07	53.35	30.42	607925.36	792887.91	N 32 40 6.85	W 103 30 57.14
	6391.00	1.41	79.08	6390.60	2410.60	18.39	18.62	26.65	0.10	55.05	32.51	607925.82	792890.15	N 32 40 6.86	W 103 30 57.12
	6486.00	1.71	87.57	6485.57	2505.57	18.65	18.90	29.21	0.40	57.09	34.80	607926.10	792892.71	N 32 40 6.86	W 103 30 57.09
	6580.00	1.71	94.07	6579.53	2599.53	18.58	18.86	32.01	0.21	59.49	37.16	607926.06	792895.51	N 32 40 6.86	W 103 30 57.06
	6673.00	1.10	112.35	6672.50	2692.50	18.12	18.43	34.22	0.81	61.70	38.87	607925.63	792897.72	N 32 40 6.85	W 103 30 57.03
	6768.00	1.80	181.17	6767.47	2787.47	16.28	16.59	35.03	1.83	64.66	38.76	607923.79	792898.53	N 32 40 6.83	W 103 30 57.02
	6862.00	2.02	182.88	6861.42	2881.42	13.15	13.46	34.92	0.24	68.93	37.42	607920.66	792898.42	N 32 40 6.80	W 103 30 57.02
	6958.00	1.89	185.26	6957.36	2977.36	9.88	10.19	34.69	0.16	73.63	36.16	607917.39	792898.19	N 32 40 6.77	W 103 30 57.02
	7053.00	2.02	188.38	7052.31	3072.31	6.67	6.97	34.30	0.18	78.51	35.01	607914.17	792897.80	N 32 40 6.74	W 103 30 57.03
	7147.00	1.89	183.76	7146.25	3166.25	3.49	3.79	33.96	0.22	83.63	34.17	607910.99	792897.46	N 32 40 6.71	W 103 30 57.03
	7241.00	1.80	180.38	7240.21	3260.21	0.47	0.77	33.85	0.15	88.70	33.86	607907.97	792897.35	N 32 40 6.68	W 103 30 57.04
	7337.00	1.80	175.06	7336.16	3356.16	-2.54	-2.24	33.97	0.17	93.78	34.04	607904.96	792897.47	N 32 40 6.65	W 103 30 57.03
	7431.00	1.58	179.19	7430.12	3450.12	-5.31	-5.01	34.11	0.27	98.36	34.48	607902.19	792897.61	N 32 40 6.62	W 103 30 57.03
	7525.00	1.80	188.16	7524.08	3544.08	-8.07	-7.77	33.92	0.37	102.90	34.80	607899.43	792897.42	N 32 40 6.59	W 103 30 57.04
	7619.00	1.58	192.46	7618.04	3638.04	-10.79	-10.49	33.43	0.27	107.43	35.04	607896.71	792896.93	N 32 40 6.57	W 103 30 57.04
	7714.00	1.49	189.39	7713.00	3733.00	-13.28	-12.99	32.95	0.13	111.52	35.42	607894.21	792896.45	N 32 40 6.54	W 103 30 57.05
	7807.00	1.58	199.45	7805.97	3825.97	-15.68	-15.39	32.33	0.31	115.46	35.80	607891.81	792895.82	N 32 40 6.52	W 103 30 57.05
	7902.00	1.32	198.88	7900.94	3920.94	-17.94	-17.66	31.54	0.27	119.25	36.15	607889.54	792895.03	N 32 40 6.50	W 103 30 57.06
	7997.00	1.01	205.16	7995.92	4015.92	-19.73	-19.46	30.83	0.35	122.26	36.45	607887.74	792894.32	N 32 40 6.48	W 103 30 57.07
	8091.00	1.01	200.86	8089.90	4109.90	-21.25	-20.98	30.18	0.08	124.81	36.75	607886.22	792893.68	N 32 40 6.46	W 103 30 57.08
	8185.00	0.88	202.57	8183.89	4203.89	-22.68	-22.42	29.61	0.14	127.14	37.14	607884.78	792893.11	N 32 40 6.45	W 103 30 57.09
	8281.00	0.79	180.69	8279.88	4299.88	-24.02	-23.76	29.32	0.34	129.03	37.74	607883.44	792892.81	N 32 40 6.44	W 103 30 57.09
	8377.00	0.88	184.68	8375.87	4395.87	-25.42	-25.16	29.25	0.11	130.71	38.58	607882.04	792892.75	N 32 40 6.42	W 103 30 57.09
	8469.00	0.88	180.95	8467.86	4487.86	-26.83	-26.57	29.18	0.06	132.32	39.46	607880.63	792892.68	N 32 40 6.41	W 103 30 57.09
	8564.00	0.62	194.26	8562.85	4582.85	-28.05	-27.80	29.04	0.33	133.75	40.20	607879.40	792892.54	N 32 40 6.40	W 103 30 57.09
	8660.00	0.79	196.68	8658.84	4678.84	-29.19	-28.94	28.72	0.18	135.21	40.77	607878.26	792892.22	N 32 40 6.38	W 103 30 57.10
	8753.00	1.89	168.95	8751.82	4771.82	-31.31	-31.06	28.83	1.34	137.13	42.38	607876.14	792892.33	N 32 40 6.36	W 103 30 57.10
	8847.00	1.80	179.46	8845.77	4865.77	-34.31	-34.05	29.14	0.37	139.44	44.82	607873.15	792892.64	N 32 40 6.33	W 103 30 57.09
	8941.00	1.58	254.16	8939.74	4959.74	-36.13	-35.88	27.91	2.19	142.13	45.46	607871.32	792891.41	N 32 40 6.32	W 103 30 57.11
	9036.00	1.49	320.26	9034.71	5054.71	-35.52	-35.29	25.86	1.76	143.77	43.75	607871.91	792889.36	N 32 40 6.32	W 103 30 57.13
	9130.00	1.41	326.45	9128.68	5148.68	-33.60	-33.39	24.44	0.19	143.80	41.38	607873.81	792887.94	N 32 40 6.34	W 103 30 57.15
	9318.00	0.79	346.05	9316.65	5336.65	-30.40	-30.20	22.85	0.38	142.89	37.87	607877.00	792886.35	N 32 40 6.37	W 103 30 57.17

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9412.00	0.48	335.46	9410.64	5430.64	-29.41	-29.22	22.53	0.35	142.36	36.89	607877.99	792886.03	N 32 40 6.38	W 103 30 57.17
	9600.00	0.40	343.85	9598.64	5618.64	-28.06	-27.87	22.02	0.05	141.69	35.52	607879.33	792885.52	N 32 40 6.40	W 103 30 57.18
	9696.00	0.40	7.59	9694.63	5714.63	-27.41	-27.21	21.97	0.17	141.09	34.98	607879.99	792885.47	N 32 40 6.40	W 103 30 57.18
	9790.00	0.62	358.18	9788.63	5808.63	-26.57	-26.38	22.00	0.25	140.18	34.35	607880.82	792885.50	N 32 40 6.41	W 103 30 57.18
	9883.00	0.40	44.85	9881.63	5901.63	-25.84	-25.65	22.21	0.49	139.11	33.93	607881.55	792885.71	N 32 40 6.42	W 103 30 57.17
	9979.00	0.70	56.98	9977.62	5997.62	-25.29	-25.09	22.94	0.33	137.57	34.00	607882.11	792886.44	N 32 40 6.42	W 103 30 57.17
	10072.00	0.62	77.28	10070.62	6090.62	-24.88	-24.67	23.91	0.26	135.90	34.35	607882.53	792887.40	N 32 40 6.43	W 103 30 57.15
	10168.00	0.70	110.15	10166.61	6186.61	-24.98	-24.76	24.96	0.40	134.76	35.16	607882.44	792888.46	N 32 40 6.43	W 103 30 57.14
Tie-In	10230.00	0.70	110.00	10228.60	6248.60	-25.24	-25.02	25.67	0.00	134.26	35.85	607882.18	792889.17	N 32 40 6.42	W 103 30 57.13
Hold	10265.00	0.00	110.00	10263.60	6283.60	-25.32	-25.09	25.87	2.00	134.12	36.04	607882.11	792889.37	N 32 40 6.42	W 103 30 57.13
	10300.00	0.00	110.00	10298.60	6318.60	-25.32	-25.09	25.87	0.00	134.12	36.04	607882.11	792889.37	N 32 40 6.42	W 103 30 57.13
KOP 12°/100' DLS	10374.00	0.00	110.00	10372.60	6392.60	-25.32	-25.09	25.87	0.00	134.12	36.04	607882.11	792889.37	N 32 40 6.42	W 103 30 57.13
	10400.00	3.12	359.18	10398.59	6418.59	-24.61	-24.38	25.86	12.00	133.31	35.55	607882.82	792889.36	N 32 40 6.43	W 103 30 57.13
	10500.00	15.12	359.18	10497.15	6517.15	-8.79	-8.56	25.64	12.00	108.47	27.03	607898.64	792889.14	N 32 40 6.59	W 103 30 57.13
	10600.00	27.12	359.18	10590.26	6610.26	27.18	27.40	25.12	12.00	42.52	37.17	607934.60	792888.62	N 32 40 6.94	W 103 30 57.14
	10700.00	39.12	359.18	10673.86	6693.86	81.72	81.94	24.34	12.00	16.54	85.47	607989.13	792887.84	N 32 40 7.48	W 103 30 57.14
	10800.00	51.12	359.18	10744.29	6764.29	152.45	152.66	23.33	12.00	8.69	154.43	608059.86	792886.83	N 32 40 8.18	W 103 30 57.15
	10900.00	63.12	359.18	10798.48	6818.48	236.27	236.48	22.13	12.00	5.35	237.51	608143.67	792885.62	N 32 40 9.01	W 103 30 57.15
	11000.00	75.12	359.18	10834.05	6854.05	329.53	329.73	20.79	12.00	3.61	330.39	608236.92	792884.29	N 32 40 9.93	W 103 30 57.16
Landing Point	11100.00	87.12	359.18	10849.46	6869.46	428.15	428.34	19.38	12.00	2.59	428.78	608335.53	792882.87	N 32 40 10.91	W 103 30 57.17
	11132.03	90.96	359.18	10850.00	6870.00	460.17	460.36	18.92	12.00	2.35	460.75	608367.55	792882.42	N 32 40 11.23	W 103 30 57.17
	11200.00	90.96	359.18	10848.85	6868.85	528.13	528.31	17.94	0.00	1.95	528.62	608435.50	792881.44	N 32 40 11.90	W 103 30 57.17
	11300.00	90.96	359.18	10847.17	6867.17	628.12	628.29	16.51	0.00	1.51	628.50	608535.47	792880.01	N 32 40 12.89	W 103 30 57.18
	11400.00	90.96	359.18	10845.49	6865.49	728.10	728.26	15.08	0.00	1.19	728.42	608635.45	792878.58	N 32 40 13.88	W 103 30 57.19
	11500.00	90.96	359.18	10843.81	6863.81	828.09	828.24	13.64	0.00	0.94	828.35	608735.42	792877.14	N 32 40 14.87	W 103 30 57.20
	11600.00	90.96	359.18	10842.12	6862.12	928.07	928.21	12.21	0.00	0.75	928.29	608835.39	792875.71	N 32 40 15.86	W 103 30 57.21
	11700.00	90.96	359.18	10840.44	6860.44	1028.05	1028.19	10.78	0.00	0.60	1028.25	608935.37	792874.28	N 32 40 16.85	W 103 30 57.21
	11800.00	90.96	359.18	10838.76	6858.76	1128.04	1128.16	9.34	0.00	0.47	1128.20	609035.34	792872.84	N 32 40 17.83	W 103 30 57.22
	11900.00	90.96	359.18	10837.08	6857.08	1228.02	1228.14	7.91	0.00	0.37	1228.17	609135.31	792871.41	N 32 40 18.82	W 103 30 57.23
	12000.00	90.96	359.18	10835.39	6855.39	1328.01	1328.12	6.48	0.00	0.28	1328.13	609235.29	792869.98	N 32 40 19.81	W 103 30 57.24
	12100.00	90.96	359.18	10833.71	6853.71	1427.99	1428.09	5.04	0.00	0.20	1428.10	609335.26	792868.54	N 32 40 20.80	W 103 30 57.24
	12200.00	90.96	359.18	10832.03	6852.03	1527.98	1528.07	3.61	0.00	0.14	1528.07	609435.24	792867.11	N 32 40 21.79	W 103 30 57.25
	12300.00	90.96	359.18	10830.35	6850.35	1627.96	1628.04	2.18	0.00	0.08	1628.04	609535.21	792865.68	N 32 40 22.78	W 103 30 57.26
	12400.00	90.96	359.18	10828.66	6848.66	1727.94	1728.02	0.75	0.00	0.02	1728.02	609635.18	792864.25	N 32 40 23.77	W 103 30 57.27
	12500.00	90.96	359.18	10826.98	6846.98	1827.93	1827.99	-0.69	0.00	359.98	1827.99	609735.16	792862.81	N 32 40 24.76	W 103 30 57.28
	12600.00	90.96	359.18	10825.30	6845.30	1927.91	1927.97	-2.12	0.00	359.94	1927.97	609835.13	792861.38	N 32 40 25.75	W 103 30 57.28
	12700.00	90.96	359.18	10823.62	6843.62	2027.90	2027.94	-3.55	0.00	359.90	2027.95	609935.10	792859.95	N 32 40 26.74	W 103 30 57.29
	12800.00	90.96	359.18	10821.93	6841.93	2127.88	2127.92	-4.99	0.00	359.87	2127.93	610035.08	792858.51	N 32 40 27.73	W 103 30 57.29
	12900.00	90.96	359.18	10820.25	6840.25	2227.87	2227.90	-6.42	0.00	359.83	2227.90	610135.05	792857.08	N 32 40 28.72	W 103 30 57.31
	13000.00	90.96	359.18	10818.57	6838.57	2327.85	2327.87	-7.85	0.00	359.81	2327.88	610235.02	792855.65	N 32 40 29.71	W 103 30 57.31
	13100.00	90.96	359.18	10816.88	6836.88	2427.83	2427.85	-9.29	0.00	359.78	2427.86	610335.00	792854.21	N 32 40 30.70	W 103 30 57.32
	13200.00	90.96	359.18	10815.20	6835.20	2527.82	2527.82	-10.72	0.00	359.76	2527.85	610434.97	792852.78	N 32 40 31.68	W 103 30 57.33
	13300.00	90.96	359.18	10813.52	6833.52	2627.80	2627.80	-12.15	0.00	359.74	2627.83	610534.94	792851.35	N 32 40 32.67	W 103 30 57.34
	13400.00	90.96	359.18	10811.84	6831.84	2727.79	2727.77	-13.58	0.00	359.71	2727.81	610634.92	792849.92	N 32 40 33.66	W 103 30 57.34
	13500.00	90.96	359.18	10810.15	6830.15	2827.77	2827.75	-15.02	0.00	359.70	2827.79	610734.89	792848.48	N 32 40 34.65	W 103 30 57.35
	13600.00	90.96	359.18	10808.47	6828.47	2927.76	2927.72	-16.45	0.00	359.68	2927.77	610834.86	792847.05	N 32 40 35.64	W 103 30 57.36
	13700.00	90.96	359.18	10806.79	6826.79	3027.74	3027.70	-17.88	0.00	359.66	3027.75	610934.84	792845.62	N 32 40 36.63	W 103 30 57.37
	13800.00	90.96	359.18	10805.11	6825.11	3127.72	3127.68	-19.32	0.00	359.65	3127.74	611034.81	792844.18	N 32 40 37.62	W 103 30 57.38
	13900.00	90.96	359.18	10803.42	6823.42	3227.71	3227.65	-20.75	0.00	359.63	3227.72	611134.79	792842.75	N 32 40 38.61	W 103 30 57.38
	14000.00	90.96	359.18	10801.74	6821.74	3327.69	3327.63	-22.18	0.00	359.62	3327.70	611234.76	792841.32	N 32 40 39.60	W 103 30 57.39
	14100.00	90.96	359.18	10800.06	6820.06	3427.68	3427.60	-23.62	0.00	359.61	3427.68	611334.73	792839.88	N 32 40 40.59	W 103 30 57.40
	14200.00	90.96	359.18	10798.38	6818.38	3527.66	3527.58	-25.05	0.00	359.59	3527.67	611434.71	792838.45	N 32 40 41.58	W 103 30 57.41
	14300.00	90.96	359.18	10796.69	6816.69	3627.65	3627.55	-26.48	0.00	359.58	3627.65	611534.68	792837.02	N 32 40 42.57	W 103 30 57.41
	14400.00	90.96	359.18	10795.01	6815.01	3727.63	3727.53	-27.92	0.00	359.57	3727.63	611634.65	792835.59	N 32 40 43.56	W 103 30 57.42
	14500.00	90.96	359.18	10793.33	6813.33	3827.61	3827.50	-29.35	0.00	359.56	3827.62	611734.63	792834.15	N 32 40 44.55	W 103 30 57.43
	14600.00	90.96	359.18	10791.65	6811.65	3927.60	3927.48	-30.78	0.00	359.55	3927.60	611834.60	792832.72	N 32 40 45.53	W 103 30 57.44
	14700.00	90.96	359.18	10789.96	6809.96	4027.58	4027.46	-32.21	0.00	359.54	4027.58	611934.57	792831.29	N 32 40 46.52	W 103 30 57.45
	14800.00	90.96	359.18	10788.28	6808.28	4127.57	4127.43	-33.65	0.00	359.53	4127.57	612034.55	792829.85	N 32 40 47.51	W 103 30 57.45
	14900.00	90.96	359.18	10786.60	6806.60	4227.55	4227.41	-35.08	0.00	359.52	4227.55	612134.52	792828.42	N 32 40 48.50	W 103 30 57.46

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
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Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	25.000	Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	25.000	3663.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	3663.000	4029.000	1/98.425	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	4029.000	10230.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	10230.000	10273.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Rev2 mcs 18Aug14
	1	10273.000	15292.183	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Teal 12 State 2H Rev2 mcs 18Aug14



Noram 26

Cimarex

Rev2



EW (ft) Scale = 1:70(ft)

Borehole:	Well:	Field:	Structure:
Original Borehole	Teal 12 State 2H	Lea County, NM	Noram 26

Gravity & Magnetic Parameters	Surface Location	Macellaneous
Model: BGOM 2014 Dip: 60.525° Date: 18-Aug-2014	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Teal 12 State
MagDec: 7.364° FS: 48532.234nT Gravity FS: 998.715mgal (9.80665 Based)	Lat: N 32 40 6.67 Northing: 607907.27US Grid Conv: 0.4412"	2H
	Lon: W 103 30 57.43 Easting: 792863.57US Scale Fact: 0.99998154	Plan: Rev2 mcs 18Aug14

Critical Points

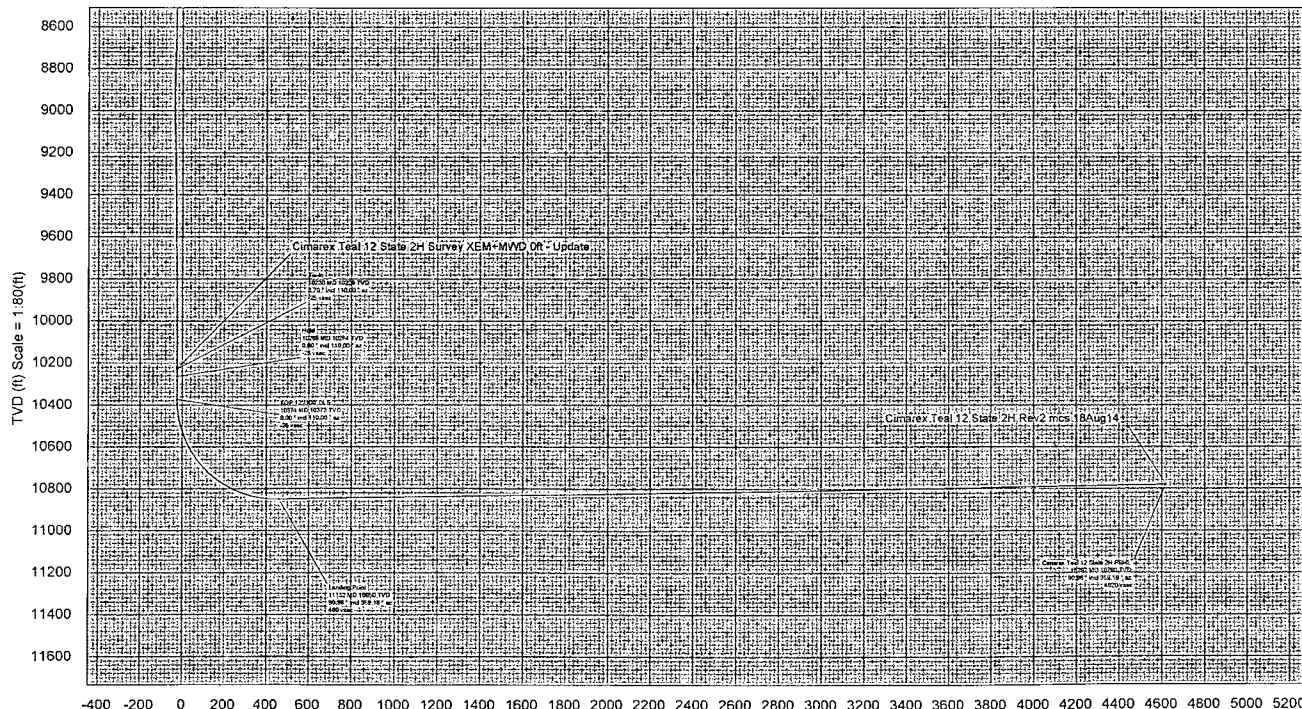
Comments	Survey	MD	Inc	Azim	TVD	SSTVD	VS	NS	EW	Longitude	Latitude	Easting	Northing	DLS	Tool Face
SHL		0.00	0.00	0.00	0.00	-3980.00	0.00	0.00	0.00	W 103 30 57.432	N 32 40 6.673	792863.50	607907.20		12.29
Tie-In		10230.00	0.70	110.00	10228.60	6248.60	-25.24	-25.02	25.67	W 103 30 57.134	N 32 40 6.423	792889.17	607882.18	0.00	110.00
Hold		10265.00	0.00	110.00	10263.60	6283.60	-25.32	-25.09	25.87	W 103 30 57.131	N 32 40 6.423	792889.37	607882.11	2.00	110.00
KOP 12"/100" DLS		10374.00	0.00	110.00	10372.60	6392.60	-25.32	-25.09	25.87	W 103 30 57.131	N 32 40 6.423	792889.37	607882.11	0.00	359.18
Landing Point		11132.03	90.96	359.18	10850.00	6870.00	460.17	460.36	18.92	W-103 30 57.169	N 32 40 11.226	792882.42	608367.55	12.00	0.00
PBHL		15292.18	90.96	359.18	10780.00	6800.00	4619.67	4619.49	-40.70	W 103 30 57.492	N 32 40 52.382	792822.80	612526.60	0.00	



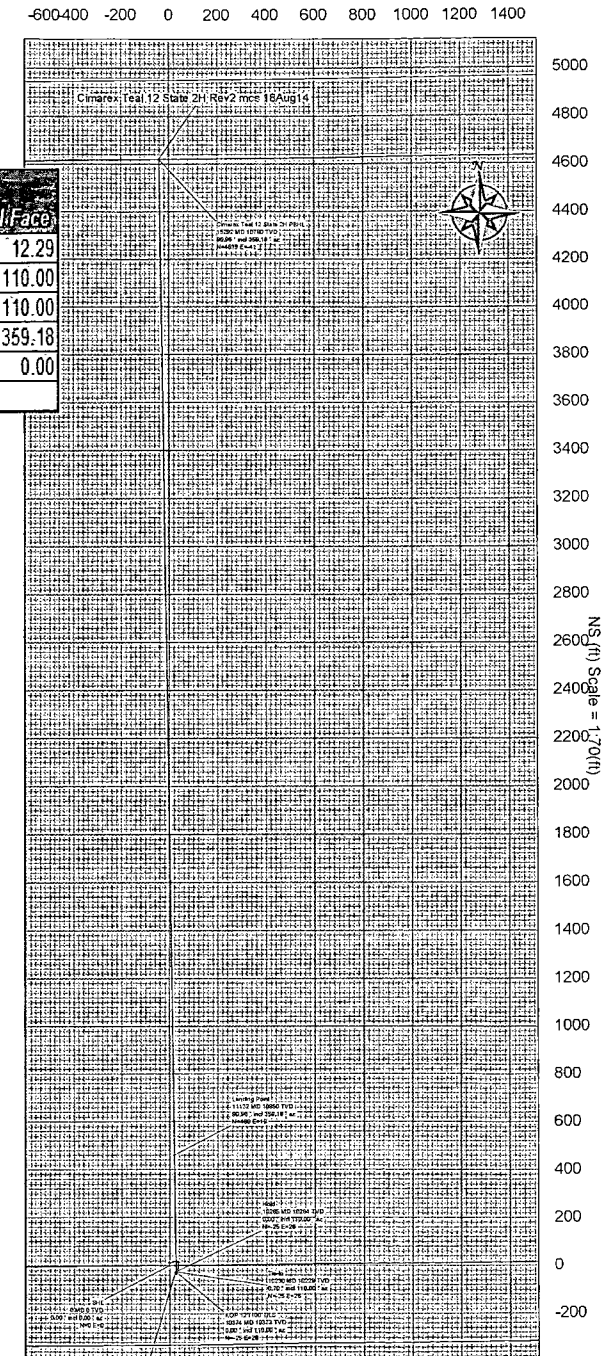
Grid North
Tot Cor (M-S 6.923°)
Mag Dec (7.364°)
Grid Conv (0.441°)

CONTROLLED

Plan ref	CIMAREX Teal 12 State 2H Survey
Drawing ref	Rev 18Aug14
Copy number	of 1
Date	18-Aug-2014
1. Designer	R. Schneider
2. Df Sign Off Authority	
3. Df Sign Off Manager	
4. Date	
5. Copy number	18



Vertical Section (ft) Azim = 359.5° Scale = 1:80(ft) Origin = ON/-S, OE/-W



Cimarex Teal 12 State 2H Survey XEM-MWD Off - Update



Cimarex Teal 12 State 2H Rev2 mcs 18Aug14 Proposal Geodetic Report

(Non-Def Plan)

Report Date:	August 18, 2014 - 04:47 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	359.495 ° (Grid North)
Field:	NM Lea County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Teal 12 State 2H / Cimarex Teal 12 State 2H	TVD Reference Datum:	RKB
Well:	Cimarex Teal 12 State 2H	TVD Reference Elevation:	3980.000 ft above MSL
Borehole:	Original Borehole	Seabed / Ground Elevation:	3955.000 ft above MSL
UWI / API#:	Noram 26 / Unknown	Magnetic Declination:	7.364 °
Survey Name:	Cimarex Teal 12 State 2H Rev2 mcs 18Aug14	Total Gravity Field Strength:	998.7155mgn (9.80665 Based)
Survey Date:	November 06, 2013	Gravity Model:	DOX
Tort / AHD / DDI / ERD Ratio:	125.334 ° / 4784.228 ft / 5.927 / 0.441	Total Magnetic Field Strength:	48532.234 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	60.525 °
Location Lat / Long:	N 32° 40' 6.67289", W 103° 30' 57.43165"	Declination Date:	August 18, 2014
Location Grid N/E Y/X:	N 607907.200 ftUS, E 792863.500 ftUS	Magnetic Declination Model:	BGGM 2014
CRS Grid Convergence Angle:	0.4412 °	North Reference:	Grid North
Grid Scale Factor:	0.99998154	Grid Convergence Used:	0.4412 °
Version / Patch:	2.7.1043.0	Total Corr Mag North->Grid	6.9224 °
		North:	
		Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Closure Azimuth (°)	Closure (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	10230.00	0.70	110.00	10228.60	6248.60	-25.24	-25.02	25.67	N/A	134.26	35.85	607882.18	792889.17	N 32 40 6.42	W 103 30 57.13
Hold	10265.00	0.00	110.00	10263.60	6283.60	-25.32	-25.09	25.87	2.00	134.12	36.04	607882.11	792889.37	N 32 40 6.42	W 103 30 57.13
KOP 12"/100" DLS	10374.00	0.00	110.00	10372.60	6392.60	-25.32	-25.09	25.87	0.00	134.12	36.04	607882.11	792889.37	N 32 40 6.42	W 103 30 57.13
Landing Point	11132.03	90.96	359.18	10850.00	6870.00	460.17	460.36	18.92	12.00	2.35	460.75	608367.55	792882.42	N 32 40 11.23	W 103 30 57.17
Cimarex Teal 12 State 2H PBHL	15292.18	90.96	359.18	10780.00	6800.00	4619.67	4619.49	-40.70	0.00	359.50	4619.67	612526.60	792822.80	N 32 40 52.38	W 103 30 57.49

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95,000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	25.000	Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	25.000	3663.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	3663.000	4029.000	1/98.425	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	4029.000	10230.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Survey XEM+MWD
	1	10230.000	10273.000	1/100.000	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Teal 12 State 2H Rev2 mcs 18Aug14
	1	10273.000	15292.183	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Teal 12 State 2H Rev2 mcs 18Aug14