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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

EMNRD-OCD ARTESIA

REC'D: 6/1/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45975	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 321482	⁵ Property Name RIVERBEND 12-13 FEDERAL COM	⁶ Well Number 34H
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 2937.9

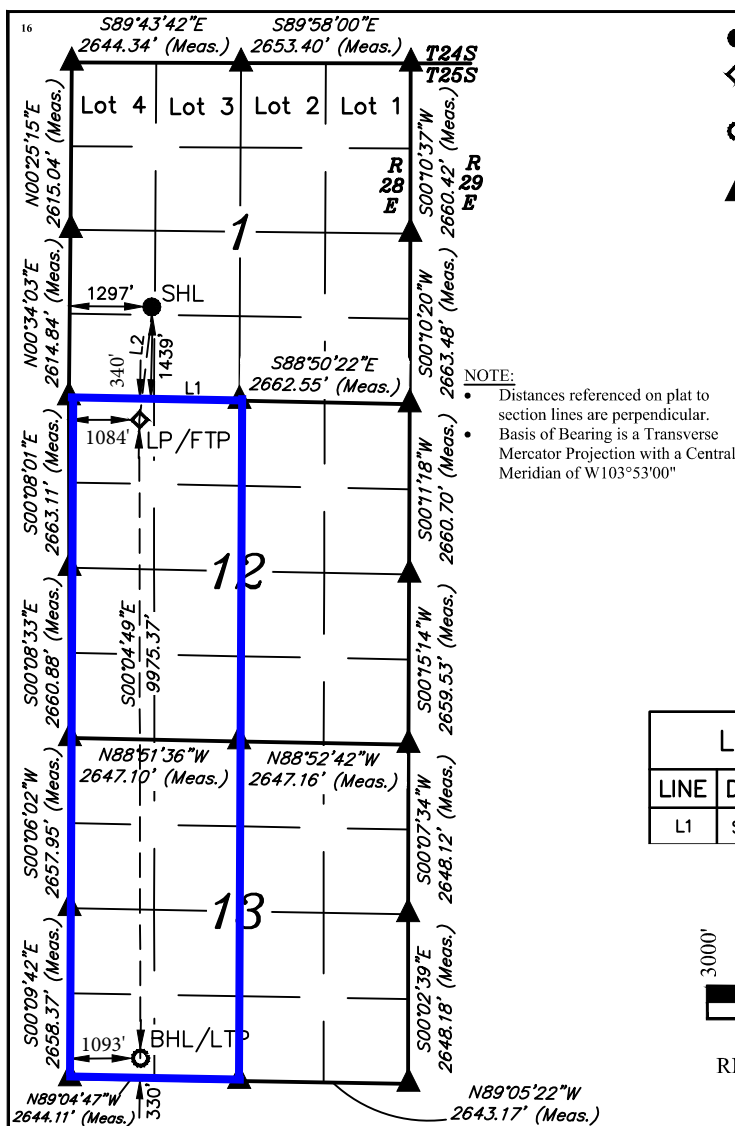
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	1	25S	28E		1439	SOUTH	1297	WEST	EDDY

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
M	13	25S	28E		330	SOUTH	1093	WEST	EDDY
¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.



- = SURFACE HOLE LOCATION
- ◆ = LANDING POINT/FIRST TAKE POINT
- = BOTTOM HOLE LOCATION/ LAST TAKE POINT
- ▲ = SECTION CORNER LOCATED

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'21.62" (32.156006°)
LONGITUDE = 104°02'42.93" (104.045258°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'21.18" (32.155883°)
LONGITUDE = 104°02'41.17" (104.044769°)
STATE PLANE NAD 83 (N.M. EAST)
N: 420609.51' E: 630486.17'
STATE PLANE NAD 27 (N.M. EAST)
N: 420551.23' E: 589302.01'

NOTE:
• Distances referenced on plat to section lines are perpendicular.
• Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00"

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S88°49'54"E	2665.14'



DRAWN BY: D.J.S. 11-07-18
REV: 1 06-26-19 C.M.T. (BHL MOVE)

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 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.

Fatima Vasquez 04/09/2020
Signature Date

Fatima Vasquez
Printed Name

fvasquez@cimarex.com
E-mail Address

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.

December 12, 2017

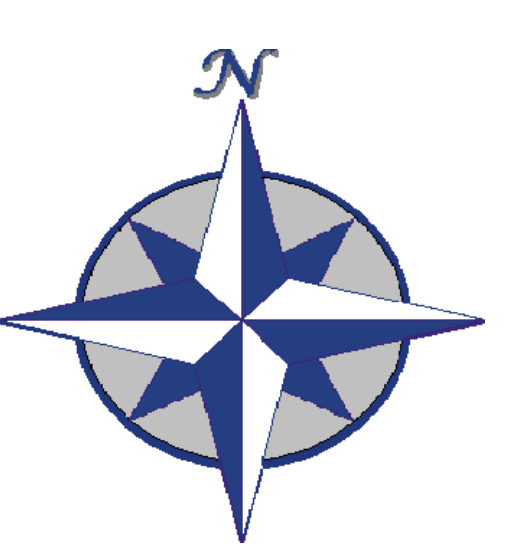
Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

Borehole: Riverbend 12-13 Federal Com #34H			Well: Riverbend 12-13 Federal Com #34H			Field: NM Eddy County (NAD 83)			Structure: Cimarex Riverbend 12-13 Federal Com #34H		
Gravity & Magnetic Parameters			Surface Location			NAD83 New Mexico State Plane, Eastern Zone, US Feet			Miscellaneous		
Model:	HDGM 2019	Dip:	59.855°	Date:	09-Oct-2019	Lat:	N 32 9 21.62	Northing:	420609.51ftUS	Slot:	New Slot
MagDec:	6.983°	FS:	47841.754nT	Gravity FS:	998.46mgn (9.80665 Based)	Lon:	W 104 2 42.93	Easting:	630486.17ftUS	Plan:	Final Surveys - Cimarex Riverbend 12-13 Federal Com #34H MWD Off-21110ft (Surcon Corrected)
									TVD Ref: RKB(2960.9ft above MSL)		

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [1439' FSL, 1297' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP	9435.22	3.79	192.77	9398.71	352.11	-353.58	-259.29	4.00
First SLB Survey	9443.00	4.08	191.03	9406.47	352.63	-354.10	-259.40	4.00
Section 1-12 Line Crossing [1096' FWL]	10803.70	89.31	179.20	9925.72	1434.31	-1435.51	-209.17	0.81
First Legal Take Point [330' From Section 1-22 Line, 1100' FWL]	11134.00	89.67	179.99	9929.23	1764.54	-1765.72	-202.86	1.20
Section 12-13 Line Crossing 1096' FWL]	16127.50	90.86	182.92	9925.45	6757.10	-6758.19	-173.91	4.71
Last Survey	21041.00	89.81	182.13	9930.22	11669.13	-11670.18	-152.15	0.76
TD, PTB [330' FSL, 1093' FWL]	21110.00	89.81	182.13	9930.45	11738.07	-11739.13	-154.71	0.00



Grid
True
Mag

Grid North
Tot Corr (M->G 6.830°)
Mag Dec (6.983°)
Grid Conv (0.153°)

CONTROLLED

Final Surveys - Cimarex Riverbend 12-13 Federal Com #34H MWD Off-21110ft (Surcon Corrected)

Plan ref

Drawing ref

Copy number

Date

28-Oct-2019

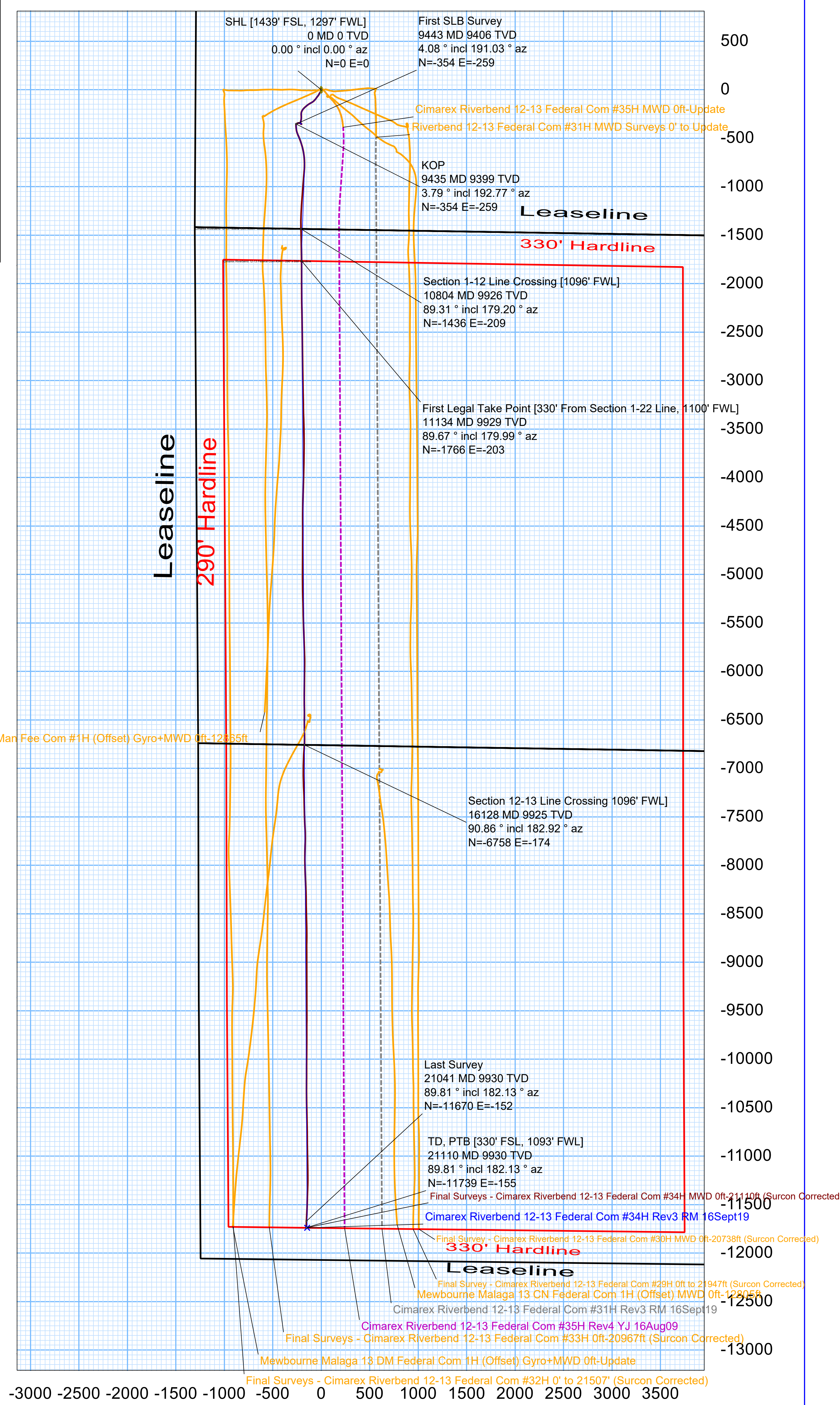
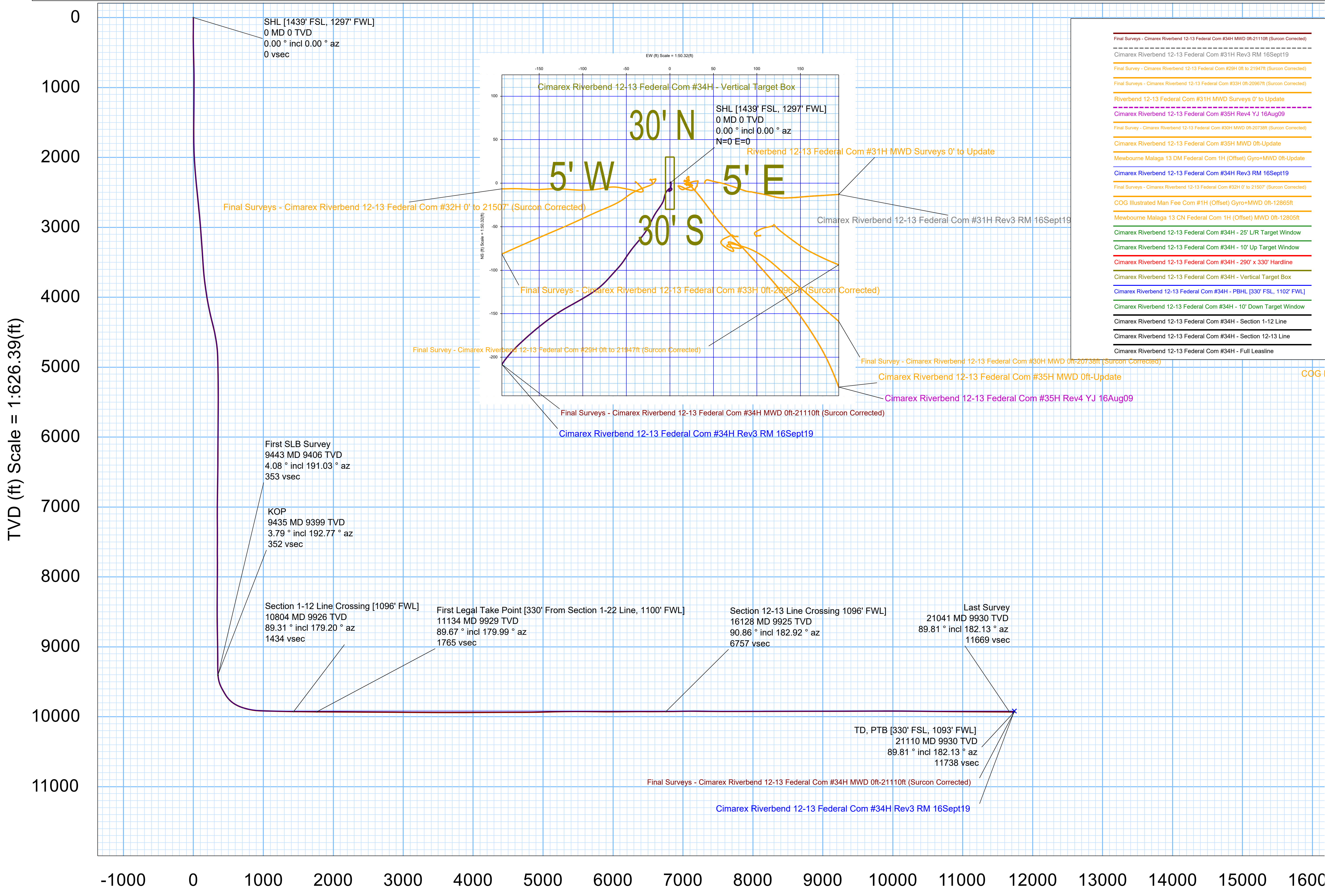
1 Client

2 Client

3 Office

4 Office

Copy number for





Final Surveys - Cimarex Riverbend 12-13 Federal Com #34H MWD 0ft-21110ft (Surcon Corrected) Survey Geodetic Report (Def Survey)



Report Date:	October 28, 2019 - 04:39 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex Energy Co.	Vertical Section Azimuth:	179.676 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Riverbend 12-13 Federal Com #34H / New Slot	TVD Reference Datum:	RKB
Well:	Riverbend 12-13 Federal Com #34H	TVD Reference Elevation:	2960.900 ft above MSL
Borehole:	Riverbend 12-13 Federal Com #34H	Seabed / Ground Elevation:	2937.900 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.983 °
Survey Name:	Final Surveys - Cimarex Riverbend 12-13 Federal Com #34H MWD 0ft-21110ft (Surcon Corrected)	Total Gravity Field Strength:	998.4601mgn (9.80665 Based)
Survey Date:	July 18, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	291.658 ° / 11941.678 ft / 6.869 / 1.201	Total Magnetic Field Strength:	47841.754 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.855 °
Location Lat / Long:	N 32° 9' 21.62158", W 104° 2' 42.92736"	Declination Date:	October 09, 2019
Location Grid N/E Y/X:	N 420609.510 ftUS, E 630486.170 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.1533 °	North Reference:	Grid North
Grid Scale Factor:	0.99991819	Grid Convergence Used:	0.1533 °
Version / Patch:	2.10.782.0	Total Corr Mag North->Grid North:	6.8299 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure Azimuth (°)	Closure (ft)
SHL [1439' FSL, 1297' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	420609.51	630486.17	N 32 9 21.62	W 104 2 42.93	0.00	0.00
	201.00	0.50	27.29	201.00	-0.78	0.78	0.40	0.25	420610.29	630486.57	N 32 9 21.63	W 104 2 42.92	27.29	0.88
	298.00	0.30	29.29	298.00	-1.37	1.38	0.72	0.21	420610.89	630486.89	N 32 9 21.64	W 104 2 42.92	27.62	1.55
	386.00	1.10	161.19	385.99	-0.77	0.78	1.11	1.50	420610.29	630487.28	N 32 9 21.63	W 104 2 42.91	54.85	1.35
	513.00	1.69	184.36	512.95	2.25	-2.24	1.36	0.63	420607.27	630487.53	N 32 9 21.60	W 104 2 42.91	148.84	2.62
	574.00	1.69	192.40	573.93	4.02	-4.02	1.09	0.39	420605.49	630487.26	N 32 9 21.58	W 104 2 42.91	164.76	4.16
	664.00	1.38	200.19	663.89	6.33	-6.33	0.44	0.41	420603.18	630486.61	N 32 9 21.56	W 104 2 42.92	176.06	6.35
	755.00	1.40	216.11	754.87	8.25	-8.26	-0.60	0.42	420601.25	630485.57	N 32 9 21.54	W 104 2 42.93	184.14	8.28
	847.00	0.26	192.62	846.86	9.36	-9.37	-1.31	1.27	420600.14	630484.86	N 32 9 21.53	W 104 2 42.94	187.93	9.46
	1030.00	0.99	62.87	1029.85	9.05	-9.05	0.01	0.64	420600.46	630486.18	N 32 9 21.53	W 104 2 42.93	179.93	9.05
	1125.00	0.70	52.56	1124.84	8.33	-8.33	1.20	0.34	420601.18	630487.37	N 32 9 21.54	W 104 2 42.91	171.79	8.41
	1220.00	0.47	40.09	1219.83	7.69	-7.68	1.91	0.28	420601.83	630488.08	N 32 9 21.55	W 104 2 42.91	166.00	7.91
	1315.00	0.40	20.88	1314.83	7.08	-7.07	2.28	0.17	420602.44	630488.45	N 32 9 21.55	W 104 2 42.90	162.10	7.43
	1409.00	0.25	331.09	1408.83	6.60	-6.58	2.30	0.33	420602.93	630488.47	N 32 9 21.56	W 104 2 42.90	160.74	6.97
	1504.00	0.28	335.19	1503.83	6.20	-6.19	2.10	0.04	420603.32	630488.27	N 32 9 21.56	W 104 2 42.90	161.24	6.54
	1598.00	0.32	328.31	1597.83	5.77	-5.76	1.87	0.06	420603.75	630488.04	N 32 9 21.56	W 104 2 42.91	162.02	6.05
	1693.00	0.77	274.51	1692.82	5.49	-5.48	1.09	0.67	420604.03	630487.26	N 32 9 21.57	W 104 2 42.91	168.73	5.59
	1787.00	1.43	234.13	1786.81	6.12	-6.12	-0.49	1.04	420603.39	630485.68	N 32 9 21.56	W 104 2 42.93	184.55	6.14
	1882.00	2.51	221.97	1881.75	8.35	-8.36	-2.84	1.21	420601.15	630483.33	N 32 9 21.54	W 104 2 42.96	198.76	8.83
	1977.00	3.05	202.64	1976.64	12.21	-12.24	-5.20	1.13	420597.27	630480.97	N 32 9 21.50	W 104 2 42.99	203.03	13.30
	2071.00	3.85	190.21	2070.47	17.62	-17.65	-6.73	1.16	420591.86	630479.45	N 32 9 21.45	W 104 2 43.01	200.85	18.89
	2166.00	4.64	211.92	2165.21	24.00	-24.06	-9.32	1.87	420585.46	630476.85	N 32 9 21.38	W 104 2 43.04	201.18	25.80
	2260.00	5.69	216.09	2258.83	30.97	-31.05	-14.08	1.19	420578.46	630472.09	N 32 9 21.31	W 104 2 43.09	204.39	34.09
	2355.00	6.36	207.34	2353.31	39.42	-39.53	-19.27	1.19	420569.98	630466.90	N 32 9 21.23	W 104 2 43.15	205.99	43.97
	2450.00	6.76	205.66	2447.69	49.11	-49.24	-24.11	0.47	420560.27	630462.07	N 32 9 21.13	W 104 2 43.21	206.08	54.83
	2544.00	7.41	217.37	2540.97	58.88	-59.05	-30.18	1.68	420550.47	630455.99	N 32 9 21.04	W 104 2 43.28	207.07	66.31
	2579.00	7.31	217.44	2575.68	62.42	-62.61	-32.91	0.29	420546.91	630453.27	N 32 9 21.00	W 104 2 43.31	207.73	70.73
	2633.00	7.02	221.14	2629.26	67.61	-67.82	-37.16	1.01	420541.69	630449.01	N 32 9 20.95	W 104 2 43.36	208.72	77.34
	2823.00	7.16	212.69	2817.81	86.24	-86.53	-51.20	0.55	420522.99	630434.98	N 32 9 20.77	W 104 2 43.53	210.61	100.54
	2917.00	6.07	220.65	2911.19	94.91	-95.23	-57.60	1.51	420514.29	630428.57	N 32 9 20.68	W 104 2 43.60	211.17	111.30

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure Azimuth (°)	Closure (ft)
	3011.00	6.02	222.73	3004.67	102.26	-102.62	-64.18	0.24	420506.89	630421.99	N 32 9 20.61	W 104 2 43.68	212.02	121.04
	3106.00	6.12	221.55	3099.13	109.67	-110.07	-70.92	0.17	420499.45	630415.25	N 32 9 20.53	W 104 2 43.76	212.79	130.94
	3295.00	6.24	234.36	3287.05	123.11	-123.60	-85.95	0.73	420485.92	630400.22	N 32 9 20.40	W 104 2 43.93	214.82	150.55
	3390.00	7.49	238.94	3381.36	129.26	-129.80	-95.45	1.44	420479.72	630390.72	N 32 9 20.34	W 104 2 44.04	216.33	161.12
	3483.00	7.91	240.56	3473.52	135.47	-136.07	-106.22	0.51	420473.45	630379.96	N 32 9 20.28	W 104 2 44.17	217.98	172.62
	3577.00	8.40	240.94	3566.57	141.92	-142.59	-117.85	0.52	420466.93	630368.33	N 32 9 20.21	W 104 2 44.30	219.57	184.99
	3672.00	9.07	236.47	3660.47	149.36	-150.10	-130.16	1.00	420459.43	630356.02	N 32 9 20.14	W 104 2 44.45	220.93	198.67
	3766.00	11.36	232.47	3752.98	159.01	-159.83	-143.68	2.55	420449.69	630342.50	N 32 9 20.04	W 104 2 44.60	221.95	214.92
	3955.00	12.52	226.50	3937.89	184.29	-185.27	-173.30	0.90	420424.25	630312.88	N 32 9 19.79	W 104 2 44.95	223.09	253.69
	4050.00	12.47	219.07	4030.65	199.26	-200.32	-187.24	1.69	420409.20	630298.95	N 32 9 19.64	W 104 2 45.11	223.07	274.20
	4144.00	12.81	207.31	4122.39	216.34	-217.46	-198.42	2.76	420392.06	630287.77	N 32 9 19.47	W 104 2 45.24	222.38	294.38
	4238.00	12.39	191.67	4214.15	235.44	-236.61	-205.24	3.65	420372.92	630280.95	N 32 9 19.29	W 104 2 45.32	220.94	313.22
	4333.00	13.52	176.57	4306.76	256.51	-257.68	-206.64	3.74	420351.85	630279.55	N 32 9 19.08	W 104 2 45.34	218.73	330.30
	4427.00	14.89	178.42	4397.88	279.55	-280.72	-205.65	1.54	420328.81	630280.54	N 32 9 18.85	W 104 2 45.33	216.23	347.99
	4521.00	11.64	188.20	4489.37	301.01	-302.19	-206.67	4.19	420307.35	630279.52	N 32 9 18.64	W 104 2 45.34	214.37	366.10
	4615.00	10.47	193.66	4581.63	318.68	-319.87	-210.04	1.67	420289.66	630276.15	N 32 9 18.46	W 104 2 45.38	213.29	382.67
	4709.00	8.24	196.68	4674.37	333.41	-334.63	-213.99	2.43	420274.91	630272.20	N 32 9 18.32	W 104 2 45.43	212.60	397.20
	4803.00	4.29	187.14	4767.79	343.34	-344.57	-216.36	4.33	420264.97	630269.83	N 32 9 18.22	W 104 2 45.45	212.12	406.87
	4897.00	2.15	129.36	4861.66	347.96	-349.18	-215.43	3.86	420260.36	630270.75	N 32 9 18.17	W 104 2 45.44	211.67	410.29
	5086.00	2.10	129.78	5050.53	352.45	-353.65	-210.03	0.03	420255.89	630276.16	N 32 9 18.13	W 104 2 45.38	210.71	411.31
	5181.00	1.01	118.54	5145.49	353.98	-355.16	-207.96	1.19	420254.38	630278.23	N 32 9 18.11	W 104 2 45.36	210.35	411.56
	5275.00	0.84	112.24	5239.48	354.64	-355.82	-206.59	0.21	420253.72	630279.60	N 32 9 18.11	W 104 2 45.34	210.14	411.44
	5370.00	0.99	113.66	5334.47	355.24	-356.41	-205.20	0.16	420253.13	630280.99	N 32 9 18.10	W 104 2 45.33	209.93	411.26
	5463.00	1.18	102.19	5427.45	355.78	-356.93	-203.52	0.31	420252.61	630282.66	N 32 9 18.10	W 104 2 45.31	209.69	410.88
	5557.00	0.48	14.91	5521.45	355.61	-356.76	-202.48	1.33	420252.78	630283.71	N 32 9 18.10	W 104 2 45.29	209.58	410.21
	5651.00	0.49	352.02	5615.44	354.83	-355.98	-202.43	0.21	420253.56	630283.76	N 32 9 18.10	W 104 2 45.29	209.63	409.51
	5840.00	0.38	350.51	5804.44	353.41	-354.56	-202.65	0.06	420254.98	630283.54	N 32 9 18.12	W 104 2 45.30	209.75	408.39
	5934.00	0.36	341.72	5898.44	352.82	-353.97	-202.79	0.06	420255.57	630283.40	N 32 9 18.12	W 104 2 45.30	209.81	407.95
	6028.00	0.36	339.72	5992.43	352.26	-353.42	-202.99	0.01	420256.12	630283.20	N 32 9 18.13	W 104 2 45.30	209.87	407.56
	6122.00	0.27	349.05	6086.43	351.77	-352.92	-203.13	0.11	420256.62	630283.06	N 32 9 18.13	W 104 2 45.30	209.92	407.20
	6217.00	0.24	14.64	6181.43	351.35	-352.51	-203.12	0.12	420257.03	630283.06	N 32 9 18.14	W 104 2 45.30	209.95	406.84
	6310.00	0.27	1.10	6274.43	350.95	-352.10	-203.07	0.07	420257.44	630283.12	N 32 9 18.14	W 104 2 45.30	209.97	406.46
	6404.00	0.32	329.31	6368.43	350.50	-351.65	-203.20	0.18	420257.89	630282.99	N 32 9 18.15	W 104 2 45.30	210.02	406.14
	6498.00	1.21	297.79	6462.42	349.80	-350.97	-204.21	1.01	420258.57	630281.98	N 32 9 18.15	W 104 2 45.31	210.19	406.05
	6593.00	1.66	298.29	6557.39	348.67	-349.85	-206.31	0.47	420259.69	630279.88	N 32 9 18.17	W 104 2 45.34	210.53	406.15
	6686.00	1.90	300.38	6650.34	347.24	-348.43	-208.83	0.27	420261.11	630277.36	N 32 9 18.18	W 104 2 45.37	210.94	406.21
	6875.00	2.24	289.06	6839.22	344.42	-345.64	-215.02	0.28	420263.90	630271.17	N 32 9 18.21	W 104 2 45.44	211.89	407.06
	6969.00	2.08	286.62	6933.16	343.31	-344.55	-218.39	0.20	420264.99	630267.80	N 32 9 18.22	W 104 2 45.48	212.37	407.93
	7063.00	1.76	273.84	7027.10	342.71	-343.96	-221.47	0.57	420265.57	630264.72	N 32 9 18.22	W 104 2 45.51	212.78	409.09
	7158.00	1.83	272.80	7122.06	342.52	-343.79	-224.44	0.08	420265.75	630261.75	N 32 9 18.23	W 104 2 45.55	213.14	410.57
	7252.00	1.09	251.14	7216.03	342.72	-344.01	-226.78	0.97	420265.53	630259.41	N 32 9 18.22	W 104 2 45.58	213.39	412.03
	7346.00	0.93	233.72	7310.01	343.45	-344.75	-228.24	0.37	420264.79	630257.95	N 32 9 18.22	W 104 2 45.59	213.51	413.46
	7440.00	0.96	261.37	7404.00	344.01	-345.32	-229.64	0.48	420264.22	630256.55	N 32 9 18.21	W 104 2 45.61	213.62	414.70
	7534.00	0.76	313.04	7497.99	343.70	-345.01	-230.87	0.82	420264.53	630255.32	N 32 9 18.21	W 104 2 45.62	213.79	415.13
	7628.00	0.98	290.48	7591.98	342.99	-344.30	-232.08	0.43	420265.23	630254.11	N 32 9 18.22	W 104 2 45.64	213.98	415.22
	7723.00	0.46	155.77	7686.97	343.05	-344.37	-232.68	1.41	420265.17	630253.51	N 32 9 18.22	W 104 2 45.64	214.05	415.61
	7817.00	0.77	124.42	7780.97	343.75	-345.07	-232.01	0.48	420264.47	630254.18	N 32 9 18.21	W 104 2 45.64	213.92	415.81
	7912.00	0.31	87.08	7875.97	344.10	-345.42	-231.22	0.59	420264.12	630254.96	N 32 9 18.21	W 104 2 45.63	213.80	415.66
	8005.00	0.45	309.36	7968.96	343.86	-345.17	-231.26	0.76	420264.37	630254.93	N 32 9 18.21	W 104 2 45.63	213.82	415.48
	8099.00	1.35	311.49	8062.95	342.88	-344.20	-232.37	0.96	420265.33	630253.82	N 32 9 18.22	W 104 2 45.64	214.02	415.30
	8193.00	0.84	316.69	8156.93	341.64	-342.97	-233.67	0.55	420266.57	630252.52	N 32 9 18.23	W 104 2 45.66	214.27	415.01
	8288.00	0.64	291.99	8251.93	340.93	-342.26	-234.64	0.39	420267.27	630251.55	N 32 9 18.24	W 104 2 45.67	214.43	414.97
	8383.00	0.29	284.83	8346.92	340.67	-342.00	-235.37	0.37	420267.53	630250.82	N 32 9 18.24	W 104 2 45.68	214.54	415.17
	8478.00	0.10	324.92	8441.92	340.54	-341.87	-235.65	0.23	420267.66	630250.54	N 32 9 18.24	W 104 2 45.68	214.58	415.22
	8572.00	1.05	264.22	8535.92	340.55	-341.89	-236.55	1.07	420267.64	630249.64	N 32 9 18.24	W 104 2 45.69	214.68	415.75
	8666.00	1.82	258.45	8629.89	340.92	-342.28	-238.87	0.83	420267.26	630247.32	N 32 9 18.24	W 104 2 45.72	214.91	417.39
	8760.00	1.84	229.06	8723.84	342.20	-343.57	-241.47	0.99	420265.97	630244.72	N 32 9 18.23	W 104 2 45.75	215.10	419.94
	8854.00	1.91	230.57	8817.79	344.17	-345.55	-243.82	0.09	420263.99	630242.37	N 32 9 18.21	W 104 2 45.77	215.21	422.91
	8948.00	1.81	243.46	8911.74	345.81	-347.21	-246.36	0.46	420262.33	630239.83	N 32 9 18.19	W 104 2 45.80	215.36	425.73
	9042.00	1.80	251.29	9005.70	346.93	-348.35	-249.09	0.26	420261.19	630237.10	N 32 9 18.18	W 104 2 45.84	215.57	428.24
	9230.00	1.56	257.93	9193.61	348.38	-349.83	-254.39	0.16	420259.71	630231.81	N 32 9 18.17	W 104 2 45.90	216.02	432.54
	9325.00	1.58	255.53	9288.58	348.97	-350.43	-256.92	0.07	420259.11	630229.27	N 32 9 18.16	W 104 2 45.93	216.25	434.52

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure Azimuth (°)	Closure (ft)
KOP	9348.00	1.51	259.66	9311.57	349.10	-350.56	-257.52	0.57	420258.98	630228.67	N 32 9 18.16	W 104 2 45.93	216.30	434.98
	9435.22	3.79	192.77	9398.71	352.11	-353.58	-259.29	4.00	420255.96	630226.90	N 32 9 18.13	W 104 2 45.95	216.25	438.47
First SLB Survey	9443.00	4.08	191.03	9406.47	352.63	-354.10	-259.40	4.00	420255.44	630226.79	N 32 9 18.12	W 104 2 45.96	216.23	438.95
	9538.00	15.16	181.96	9499.99	368.41	-369.88	-260.48	11.74	420239.66	630225.71	N 32 9 17.97	W 104 2 45.97	215.15	452.40
	9569.00	19.94	175.50	9529.54	377.73	-379.21	-260.20	16.63	420230.33	630225.99	N 32 9 17.88	W 104 2 45.97	214.46	459.90
	9601.00	24.27	174.23	9559.18	389.73	-391.20	-259.11	13.61	420218.34	630227.08	N 32 9 17.76	W 104 2 45.95	213.52	469.23
	9632.00	27.89	173.35	9587.02	403.28	-404.75	-257.63	11.74	420204.80	630228.56	N 32 9 17.62	W 104 2 45.94	212.48	479.78
	9679.00	30.07	167.01	9628.14	425.70	-427.15	-253.71	8.01	420182.40	630232.48	N 32 9 17.40	W 104 2 45.89	210.71	496.81
	9727.00	32.15	159.56	9669.25	449.44	-450.84	-246.54	9.11	420158.71	630239.65	N 32 9 17.17	W 104 2 45.81	208.67	513.85
	9758.00	35.47	156.10	9695.01	465.44	-466.80	-240.02	12.38	420142.75	630246.17	N 32 9 17.01	W 104 2 45.73	207.21	524.89
	9789.00	39.22	156.35	9719.65	482.68	-484.01	-232.44	12.11	420125.54	630253.75	N 32 9 16.84	W 104 2 45.65	205.65	536.93
	9821.00	42.95	158.23	9743.77	502.13	-503.41	-224.33	12.28	420106.15	630261.86	N 32 9 16.65	W 104 2 45.55	204.02	551.13
	9852.00	47.42	160.41	9765.61	522.74	-523.98	-216.58	15.26	420085.58	630269.60	N 32 9 16.44	W 104 2 45.46	202.46	566.98
	9883.00	51.97	162.03	9785.66	545.17	-546.36	-208.99	15.21	420063.20	630277.20	N 32 9 16.22	W 104 2 45.38	200.93	584.96
	9914.00	55.85	163.12	9803.92	569.11	-570.25	-201.49	12.83	420039.30	630284.69	N 32 9 15.98	W 104 2 45.29	199.46	604.81
	9946.00	60.24	165.29	9820.85	595.27	-596.37	-194.12	14.88	420013.19	630292.07	N 32 9 15.73	W 104 2 45.20	198.03	627.17
	9978.00	63.13	167.84	9836.03	622.70	-623.77	-187.58	11.43	419985.79	630298.60	N 32 9 15.45	W 104 2 45.13	196.74	651.37
	10009.00	66.56	170.39	9849.21	650.28	-651.32	-182.29	13.34	419958.24	630303.89	N 32 9 15.18	W 104 2 45.07	195.64	676.35
	10048.00	70.37	173.60	9863.52	686.22	-687.23	-177.26	12.41	419922.33	630308.93	N 32 9 14.83	W 104 2 45.01	194.46	709.73
	10061.00	71.65	174.72	9867.75	698.46	-699.46	-176.01	12.78	419910.11	630310.18	N 32 9 14.70	W 104 2 45.00	194.12	721.27
	10196.00	79.83	184.31	9901.05	829.01	-830.02	-175.10	9.17	419779.56	630311.09	N 32 9 13.41	W 104 2 44.99	191.91	848.29
	10290.00	85.98	184.81	9912.66	921.91	-922.96	-182.51	6.56	419686.63	630303.67	N 32 9 12.49	W 104 2 45.08	191.19	940.83
	10384.00	88.77	184.42	9916.96	1015.45	-1016.54	-190.07	3.00	419593.05	630296.12	N 32 9 11.57	W 104 2 45.17	190.59	1034.16
	10479.00	88.69	184.22	9919.07	1110.12	-1111.25	-197.22	0.23	419498.35	630288.96	N 32 9 10.63	W 104 2 45.26	190.06	1128.62
	10573.00	88.70	183.56	9921.21	1203.84	-1205.01	-203.60	0.70	419404.60	630282.59	N 32 9 9.70	W 104 2 45.33	189.59	1222.09
	10666.00	88.80	182.40	9923.24	1296.66	-1297.86	-208.43	1.25	419311.76	630277.76	N 32 9 8.78	W 104 2 45.39	189.12	1314.49
	10761.00	88.97	179.21	9925.09	1391.61	-1392.82	-209.77	3.36	419216.81	630276.42	N 32 9 7.84	W 104 2 45.41	188.56	1408.53
Section 1-12 Line Crossing [1096' FWL]	10803.70	89.31	179.20	9925.72	1434.31	-1435.51	-209.17	0.81	419174.12	630277.02	N 32 9 7.42	W 104 2 45.41	188.29	1450.67
	10854.00	89.72	179.18	9926.15	1484.60	-1485.81	-208.46	0.81	419123.83	630277.73	N 32 9 6.92	W 104 2 45.40	187.99	1500.36
	10949.00	89.20	178.01	9927.04	1579.58	-1580.77	-206.13	1.35	419028.87	630280.06	N 32 9 5.98	W 104 2 45.37	187.43	1594.15
	11043.00	89.22	178.99	9928.34	1673.55	-1674.73	-203.67	1.04	418934.92	630282.52	N 32 9 5.06	W 104 2 45.35	186.93	1687.07
First Legal Take Point [330' From Section 1-22 Line, 1100' FWL]	11134.00	89.67	179.99	9929.23	1764.54	-1765.72	-202.86	1.20	418843.94	630283.33	N 32 9 4.15	W 104 2 45.34	186.55	1777.33
	11137.00	89.68	180.02	9929.24	1767.54	-1768.72	-202.86	1.20	418840.94	630283.33	N 32 9 4.13	W 104 2 45.34	186.54	1780.31
	11231.00	89.65	180.16	9929.79	1861.54	-1862.72	-203.01	0.15	418746.95	630283.18	N 32 9 3.19	W 104 2 45.35	186.22	1873.75
	11326.00	89.68	179.46	9930.35	1956.54	-1957.71	-202.69	0.74	418651.96	630283.50	N 32 9 2.25	W 104 2 45.35	185.91	1968.18
	11420.00	89.70	179.61	9930.86	2050.53	-2051.71	-201.93	0.16	418557.97	630284.26	N 32 9 1.32	W 104 2 45.34	185.62	2061.62
	11514.00	89.75	179.71	9931.31	2144.53	-2145.71	-201.37	0.12	418463.98	630284.82	N 32 9 0.39	W 104 2 45.34	185.36	2155.14
	11608.00	89.84	178.89	9931.64	2238.53	-2239.70	-200.22	0.88	418370.00	630285.97	N 32 8 59.46	W 104 2 45.33	185.11	2248.63
	11702.00	89.50	179.17	9932.18	2332.52	-2333.68	-198.63	0.47	418276.02	630287.56	N 32 8 58.53	W 104 2 45.31	184.86	2342.12
	11797.00	89.57	179.08	9932.96	2427.52	-2428.67	-197.18	0.12	418181.04	630289.01	N 32 8 57.59	W 104 2 45.30	184.64	2436.66
	11891.00	89.72	179.60	9933.54	2521.51	-2522.66	-196.10	0.58	418087.06	630290.09	N 32 8 56.66	W 104 2 45.29	184.44	2530.27
	11985.00	89.65	179.24	9934.06	2615.51	-2616.65	-195.15	0.39	417993.08	630291.04	N 32 8 55.73	W 104 2 45.28	184.27	2623.92
	12079.00	89.67	179.23	9934.61	2709.50	-2710.64	-193.89	0.02	417899.09	630292.30	N 32 8 54.80	W 104 2 45.27	184.09	2717.57
	12173.00	89.77	179.15	9935.07	2803.50	-2804.63	-192.56	0.14	417805.11	630293.62	N 32 8 53.87	W 104 2 45.25	183.93	2811.24
	12268.00	89.85	179.34	9935.39	2898.50	-2899.62	-191.31	0.22	417710.13	630294.88	N 32 8 52.93	W 104 2 45.24	183.77	2905.93
	12362.00	89.69	179.16	9935.76	2992.49	-2993.62	-190.08	0.26	417616.14	630296.11	N 32 8 52.00	W 104 2 45.23	183.63	2999.64
	12456.00	89.32	178.62	9936.58	3086.48	-3087.59	-188.26	0.70	417522.17	630297.93	N 32 8 51.07	W 104 2 45.21	183.49	3093.33
	12550.00	89.69	178.92	9937.39	3180.46	-3181.57	-186.24	0.51	417428.21	630299.95	N 32 8 50.14	W 104 2 45.19	183.35	3187.02
	12644.00	89.65	179.40	9937.93	3274.46	-3275.56	-184.86	0.51	417334.23	630301.32	N 32 8 49.21	W 104 2 45.18	183.23	3280.77
	12737.00	89.58	177.99	9938.56	3367.44	-3368.53	-182.74	1.52	417241.26	630303.44	N 32 8 48.29	W 104 2 45.16	183.11	3373.48
	12832.00	89.52	178.94	9939.30	3462.42	-3463.49	-180.20	1.00	417146.31	630305.99	N 32 8 47.35	W 104 2 45.13	182.98	3468.17
	12926.00	89.78	178.82	9939.88	3556.40	-3557.47	-178.36	0.30	417052.34	630307.82	N 32 8 46.42	W 104 2 45.11	182.87	3561.94
	13021.00	90.00	179.43	9940.06	3651.40	-3652.46	-176.91	0.68	416957.36	630309.27	N 32 8 45.48	W 104 2 45.10	182.77	3656.74
	13116.00	90.53	181.54	9939.62	3746.38	-3747.45	-177.72	2.29	416862.38	630308.47	N 32 8 44.54	W 104 2 45.11	182.72	3751.66

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure Azimuth (°)	Closure (ft)
	13211.00	90.11	181.24	9939.09	3841.34	-3842.42	-180.02	0.54	416767.41	630306.16	N 32 8 43.60	W 104 2 45.14	182.68	3846.63
	13305.00	90.32	180.58	9938.74	3935.32	-3936.41	-181.51	0.74	416673.43	630304.67	N 32 8 42.67	W 104 2 45.16	182.64	3940.59
	13399.00	90.15	181.50	9938.35	4029.29	-4030.39	-183.22	1.00	416579.46	630302.97	N 32 8 41.74	W 104 2 45.18	182.60	4034.55
	13493.00	90.23	181.67	9938.04	4123.24	-4124.35	-185.82	0.20	416485.50	630300.37	N 32 8 40.82	W 104 2 45.22	182.58	4128.54
	13588.00	90.28	181.68	9937.62	4218.18	-4219.31	-188.60	0.05	416390.55	630297.59	N 32 8 39.88	W 104 2 45.25	182.56	4223.52
	13777.00	90.14	179.84	9936.92	4407.13	-4408.28	-191.10	0.98	416201.60	630295.08	N 32 8 38.01	W 104 2 45.29	182.48	4412.42
	13872.00	90.06	179.51	9936.76	4502.13	-4503.28	-190.56	0.36	416106.60	630295.62	N 32 8 37.07	W 104 2 45.28	182.42	4507.31
	13966.00	90.00	180.40	9936.71	4596.13	-4597.28	-190.49	0.95	416012.61	630295.70	N 32 8 36.14	W 104 2 45.29	182.37	4601.23
	14060.00	90.06	180.26	9936.66	4690.12	-4691.28	-191.03	0.16	415918.62	630295.15	N 32 8 35.21	W 104 2 45.30	182.33	4695.17
	14155.00	90.11	180.62	9936.52	4785.12	-4786.28	-191.76	0.38	415823.63	630294.43	N 32 8 34.27	W 104 2 45.31	182.29	4790.12
	14250.00	91.35	179.86	9935.31	4880.10	-4881.27	-192.16	1.53	415728.65	630294.03	N 32 8 33.33	W 104 2 45.31	182.25	4885.05
	14344.00	91.28	180.04	9933.15	4974.08	-4975.24	-192.08	0.21	415634.69	630294.11	N 32 8 32.40	W 104 2 45.32	182.21	4978.95
	14438.00	91.35	180.62	9930.99	5068.04	-5069.21	-192.62	0.62	415540.72	630293.57	N 32 8 31.47	W 104 2 45.33	182.18	5072.87
	14533.00	91.34	178.48	9928.76	5163.01	-5164.18	-191.87	2.25	415445.76	630294.31	N 32 8 30.53	W 104 2 45.32	182.13	5167.74
	14628.00	91.22	177.73	9926.64	5257.95	-5259.10	-188.73	0.80	415350.85	630297.45	N 32 8 29.59	W 104 2 45.29	182.06	5262.49
	14722.00	90.74	179.49	9925.03	5351.92	-5353.06	-186.45	1.94	415256.90	630299.73	N 32 8 28.66	W 104 2 45.26	181.99	5356.30
	14817.00	89.70	178.54	9924.67	5446.91	-5448.04	-184.82	1.48	415161.93	630301.37	N 32 8 27.72	W 104 2 45.25	181.94	5451.17
	14911.00	89.62	177.90	9925.23	5540.88	-5541.99	-181.90	0.69	415067.98	630304.29	N 32 8 26.79	W 104 2 45.22	181.88	5544.98
	15005.00	89.56	178.08	9925.90	5634.83	-5635.93	-178.60	0.20	414974.05	630307.58	N 32 8 25.86	W 104 2 45.18	181.82	5638.76
	15101.00	89.54	178.56	9926.65	5730.80	-5731.89	-175.79	0.50	414878.10	630310.40	N 32 8 24.91	W 104 2 45.15	181.76	5734.58
	15195.00	89.12	177.84	9927.75	5824.76	-5825.83	-172.84	0.89	414784.16	630313.35	N 32 8 23.98	W 104 2 45.12	181.70	5828.40
	15290.00	89.60	180.53	9928.81	5919.75	-5920.81	-171.48	2.88	414689.20	630314.70	N 32 8 23.04	W 104 2 45.11	181.66	5923.29
	15384.00	90.76	181.06	9928.52	6013.73	-6014.80	-172.79	1.36	414595.22	630313.40	N 32 8 22.11	W 104 2 45.12	181.65	6017.28
	15478.00	90.41	180.26	9927.56	6107.71	-6108.79	-173.87	0.93	414501.24	630312.31	N 32 8 21.18	W 104 2 45.14	181.63	6111.26
	15573.00	90.69	180.85	9926.65	6202.69	-6203.78	-174.79	0.69	414406.25	630311.39	N 32 8 20.24	W 104 2 45.15	181.61	6206.24
	15668.00	90.50	179.70	9925.66	6297.68	-6298.77	-175.25	1.23	414311.27	630310.94	N 32 8 19.30	W 104 2 45.16	181.59	6301.21
	15763.00	89.52	178.65	9925.64	6392.67	-6393.76	-173.88	1.51	414216.29	630312.30	N 32 8 18.36	W 104 2 45.15	181.56	6396.12
	15858.00	90.02	181.37	9926.02	6487.66	-6488.75	-173.90	2.91	414121.31	630312.29	N 32 8 17.42	W 104 2 45.15	181.54	6491.08
	15952.00	90.03	178.79	9925.98	6581.65	-6582.74	-174.03	2.74	414027.32	630312.16	N 32 8 16.49	W 104 2 45.16	181.51	6585.04
	16047.00	89.94	179.24	9926.01	6676.64	-6677.72	-172.39	0.48	413932.34	630313.79	N 32 8 15.55	W 104 2 45.14	181.48	6679.95
Section 12-13 Line Crossing 1096' FWL]	16127.50	90.86	182.92	9925.45	6757.10	-6758.19	-173.91	4.71	413851.88	630312.28	N 32 8 14.75	W 104 2 45.16	181.47	6760.43
	16142.00	91.02	183.58	9925.21	6771.57	-6772.67	-174.73	4.71	413837.41	630311.45	N 32 8 14.61	W 104 2 45.17	181.48	6774.92
	16236.00	90.64	183.08	9923.85	6865.37	-6866.50	-180.19	0.67	413743.59	630305.99	N 32 8 13.68	W 104 2 45.24	181.50	6868.86
	16329.00	90.90	181.57	9922.60	6958.26	-6959.41	-183.96	1.65	413650.68	630302.22	N 32 8 12.76	W 104 2 45.28	181.51	6961.84
	16424.00	90.98	179.48	9921.04	7053.23	-7054.39	-184.83	2.20	413555.71	630301.35	N 32 8 11.82	W 104 2 45.30	181.50	7056.81
	16518.00	89.54	177.71	9920.61	7147.21	-7148.35	-182.53	2.43	413461.75	630303.66	N 32 8 10.89	W 104 2 45.27	181.46	7150.68
	16613.00	89.69	177.60	9921.25	7242.15	-7243.27	-178.64	0.20	413366.84	630307.54	N 32 8 9.95	W 104 2 45.23	181.41	7245.48
	16707.00	89.33	178.87	9922.06	7336.11	-7337.22	-175.75	1.40	413272.90	630310.44	N 32 8 9.02	W 104 2 45.20	181.37	7339.33
	16801.00	89.39	179.13	9923.11	7430.10	-7431.20	-174.11	0.28	413178.93	630312.08	N 32 8 8.09	W 104 2 45.18	181.34	7433.24
	16896.00	89.55	177.79	9923.99	7525.07	-7526.16	-171.55	1.42	413083.98	630314.63	N 32 8 7.15	W 104 2 45.16	181.31	7528.12
	16991.00	90.22	177.00	9924.18	7619.99	-7621.06	-167.24	1.09	412989.09	630318.95	N 32 8 6.21	W 104 2 45.11	181.26	7622.90
	17086.00	89.86	180.04	9924.11	7714.96	-7716.02	-164.78	3.22	412894.14	630321.40	N 32 8 5.27	W 104 2 45.08	181.22	7717.78
	17180.00	90.77	181.88	9923.59	7808.93	-7810.00	-166.36	2.18	412800.17	630319.83	N 32 8 4.34	W 104 2 45.10	181.22	7811.77
	17273.00	89.88	181.09	9923.07	7901.88	-7902.96	-168.77	1.28	412707.21	630317.42	N 32 8 3.42	W 104 2 45.14	181.22	7904.77
	17368.00	90.09	178.38	9923.09	7996.88	-7997.96	-168.33	2.86	412612.23	630317.86	N 32 8 2.48	W 104 2 45.13	181.21	7999.73
	17461.00	90.03	177.92	9922.99	8089.84	-8090.91	-165.33	0.50	412519.28	630320.86	N 32 8 1.56	W 104 2 45.10	181.17	8092.60
	17556.00	90.30	177.56	9922.72	8184.79	-8185.83	-161.58	0.47	412424.36	630324.60	N 32 8 0.63	W 104 2 45.06	181.13	8187.43
	17649.00	90.09	178.30	9922.40	8277.74	-8278.77	-158.22	0.83	412331.43	630327.96	N 32 7 59.71	W 104 2 45.02	181.09	8280.28
	17743.00	90.02	179.42	9922.31	8371.73	-8372.75	-156.35	1.19	412237.46	630329.83	N 32 7 58.78	W 104 2 45.01	181.07	8374.21
	17837.00	90.21	178.74	9922.12	8465.73	-8466.74	-154.84	0.75	412143.48	630331.34	N 32 7 57.85	W 104 2 44.99	181.05	8468.15
	17932.00	90.25	178.25	9921.74	8560.70	-8561.70	-152.35	0.52	412048.52	630333.84	N 32 7 56.91	W 104 2 44.97	181.02	8563.06
	18026.00	89.96	178.60	9921.57	8654.68	-8655.67	-149.76	0.48	411954.57	630336.42	N 32 7 55.98	W 104 2 44.94	180.99	8656.96
	18121.00	90.17	181.63	9921.46	8749.67	-8750.66	-149.95	3.20	411859.59	630336.23	N 32 7 55.04	W 104 2 44.94	180.98	8751.94
	18214.00	90.04	179.51	9921.29	8842.65	-8843.65	-150.88	2.28	411766.61	630335.31	N 32 7 54.12	W 104 2 44.96	180.98	8844.93
	18308.00	90.03	179.56	9921.23	8936.65	-8937.64	-150.11	0.05	411672.62	630336.07	N 32 7 53.19	W 104 2 44.95	180.96	8938.90
	18402.00	90.09	180.34	9921.14	9030.65	-9031.64	-150.03	0.83	411578.63	630336.15	N 32 7 52.26	W 104 2 44.95	180.95	9032.89
	18496.00	90.06	179.84	9921.01	9124.65	-9125.64	-150.18	0.53	411484.63	630336.00	N 32 7 51.33	W 104 2 44.96	180.94	9126.88
	18591.00	90.19	180.10	9920.81	9219.64	-9220.64	-150.13	0.31	411389.64	630336.05	N 32 7 50.39	W 104 2 44.96	180.93	9221.86
	18685.00	90.07	179.67	9920.59	9313.64	-9314.64	-149.94	0.47	411295.65	630336.24	N 32 7 49.45	W 104 2 44.96	180.92	9315.85
	18779.00	90.40	179.55	9920.21	9407.64	-9408.64	-149.30	0.37	411201.66	630336.88	N 32 7 48.52	W 104 2 44.96	180.91	9409.82

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure Azimuth (°)	Closure (ft)
	18874.00	90.11	179.49	9919.78	9502.64	-9503.63	-148.51	0.31	411106.67	630337.68	N 32 7 47.58	W 104 2 44.95	180.90	9504.79
	18968.00	90.13	181.35	9919.59	9596.63	-9597.63	-149.20	1.98	411012.69	630336.99	N 32 7 46.65	W 104 2 44.96	180.89	9598.79
	19061.00	90.11	179.42	9919.39	9689.62	-9690.62	-149.82	2.08	410919.70	630336.36	N 32 7 45.73	W 104 2 44.97	180.89	9691.78
	19155.00	90.15	180.53	9919.18	9783.61	-9784.62	-149.78	1.18	410825.71	630336.40	N 32 7 44.80	W 104 2 44.97	180.88	9785.76
	19249.00	90.56	180.52	9918.60	9877.60	-9878.61	-150.64	0.44	410731.73	630335.54	N 32 7 43.87	W 104 2 44.99	180.87	9879.76
	19343.00	89.69	179.84	9918.39	9971.60	-9972.61	-150.94	1.17	410637.74	630335.25	N 32 7 42.94	W 104 2 44.99	180.87	9973.75
	19437.00	89.69	180.57	9918.90	10065.59	-10066.61	-151.27	0.78	410543.75	630334.91	N 32 7 42.01	W 104 2 45.00	180.86	10067.74
	19531.00	89.65	179.83	9919.44	10159.58	-10160.60	-151.60	0.79	410449.76	630334.58	N 32 7 41.08	W 104 2 45.01	180.85	10161.73
	19627.00	89.64	180.70	9920.04	10255.58	-10256.60	-152.04	0.91	410353.77	630334.14	N 32 7 40.13	W 104 2 45.01	180.85	10257.73
	19721.00	89.35	179.26	9920.87	10349.57	-10350.59	-152.01	1.56	410259.78	630334.17	N 32 7 39.20	W 104 2 45.02	180.84	10351.71
	19815.00	89.39	179.34	9921.90	10443.56	-10444.58	-150.86	0.10	410165.80	630335.32	N 32 7 38.27	W 104 2 45.01	180.83	10445.67
	19909.00	89.39	178.98	9922.90	10537.55	-10538.57	-149.49	0.38	410071.83	630336.70	N 32 7 37.34	W 104 2 44.99	180.81	10539.63
	20003.00	89.03	178.55	9924.20	10631.53	-10632.53	-147.46	0.60	409977.87	630338.72	N 32 7 36.41	W 104 2 44.97	180.79	10633.56
	20097.00	89.60	178.94	9925.32	10725.51	-10726.50	-145.40	0.73	409883.90	630340.78	N 32 7 35.48	W 104 2 44.95	180.78	10727.49
	20192.00	89.98	180.20	9925.67	10820.51	-10821.50	-144.69	1.39	409788.92	630341.49	N 32 7 34.54	W 104 2 44.95	180.77	10822.47
	20286.00	89.49	178.64	9926.10	10914.50	-10915.49	-143.74	1.74	409694.93	630342.45	N 32 7 33.61	W 104 2 44.94	180.75	10916.44
	20380.00	89.72	178.71	9926.75	11008.49	-11009.46	-141.56	0.26	409600.97	630344.62	N 32 7 32.68	W 104 2 44.92	180.74	11010.37
	20474.00	89.69	179.74	9927.23	11102.48	-11103.45	-140.29	1.10	409506.99	630345.89	N 32 7 31.75	W 104 2 44.90	180.72	11104.34
	20568.00	89.80	178.51	9927.65	11196.47	-11197.44	-138.86	1.31	409413.01	630347.33	N 32 7 30.82	W 104 2 44.89	180.71	11198.30
	20663.00	89.39	182.06	9928.32	11291.45	-11292.42	-139.33	3.76	409318.04	630346.85	N 32 7 29.88	W 104 2 44.90	180.71	11293.28
	20757.00	89.64	181.90	9929.12	11385.37	-11386.36	-142.58	0.32	409224.10	630343.61	N 32 7 28.95	W 104 2 44.94	180.72	11387.25
	20852.00	89.63	180.95	9929.73	11480.32	-11481.33	-144.94	1.00	409129.15	630341.24	N 32 7 28.01	W 104 2 44.97	180.72	11482.24
	20946.00	89.98	182.83	9930.05	11574.25	-11575.27	-148.04	2.03	409035.21	630338.14	N 32 7 27.09	W 104 2 45.01	180.73	11576.22
Last Survey	21041.00	89.81	182.13	9930.22	11669.13	-11670.18	-152.15	0.76	408940.31	630334.03	N 32 7 26.15	W 104 2 45.06	180.75	11671.17
TD, PTB [330' FSL, 1093' FWL]	21110.00	89.81	182.13	9930.45	11738.07	-11739.13	-154.71	0.00	408871.36	630331.47	N 32 7 25.46	W 104 2 45.09	180.76	11740.15

Survey Type: Def Survey

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	23.000	1/98.425	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Riverbend 12-13 Federal Com #34H / Final Surveys - Cimarex
	1	23.000	23.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Riverbend 12-13 Federal Com #34H / Final Surveys - Cimarex
	1	23.000	450.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Riverbend 12-13 Federal Com #34H / Final Surveys - Cimarex
	1	450.000	2648.000	Act Stns	12.250	9.625	NAL_MWD_IFR1+MS	Riverbend 12-13 Federal Com #34H / Final Surveys - Cimarex
	1	2648.000	10125.000	Act Stns	8.750	7.000	NAL_MWD_IFR1+MS	Riverbend 12-13 Federal Com #34H / Final Surveys - Cimarex
	1	10125.000	21110.000	Act Stns	6.000	4.500	NAL_MWD_IFR1+MS	Riverbend 12-13 Federal Com #34H / Final Surveys - Cimarex