

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 600 N. Marienfeld Suite 600, Midland TX 79701		² OGRID Number 215099	
		³ Reason for Filing Code/ Effective Date NW/ 1/20/2019	
⁴ API Number 30 - 015-45264	⁵ Pool Name Purple Sage Wolfcamp (Gas)		⁶ Pool Code 88220 98220
⁷ Property Code 321000	⁸ Property Name Scoter 6-31 Federal Com		⁹ Well Number 44H

II. 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
P	6	25S	27E		365'	South	320'	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	24S	27E		330'	North	434'	East	Eddy
¹² Lse Code	¹³ Producing Method P Code	¹⁴ Gas Connection Date 1/20/2019	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
21788	Sunoco Inc R&M PO Box 2039 Tulsa OK	O
226737	DCP Midstream 370 17th St. Suite 2500, Denver CO	G

IV. Well Completion Data

²¹ Spud Date 10/22/2018	²² Ready Date 1/20/2019	²³ TD 9037 TVD, 18616 MD	²⁴ PBTd 18545	²⁵ Perforations 9088'-18520'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375"	413'	550		
12.25"	9.265"	2058'	875		
8.75"	7"	9051'	850		
6"	4.5" liner 3 1/2" tbg @ 7410'	7426'-18616'	760		

V. Well Test Data

³¹ Date New Oil 1/20/2019	³² Gas Delivery Date 1/20/2019	³³ Test Date 2/5/2019	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 901	³⁶ Csg. Pressure 924
³⁷ Choke Size 32	³⁸ Oil 101	³⁹ Water 5379	⁴⁰ Gas 203		⁴¹ Test Method

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: <i>Amythy Crawford</i> Printed name: Amythy Crawford Title: Regulatory Analyst E-mail Address: acrawford@cimarex.com Date: 4/10/2019	Phone: 432-620-1909	OIL CONSERVATION DIVISION	
	Approved by: <i>PATRICIA MARTINEZ</i>		
	Title: <i>PETROLEUM SPECIALIST</i>		
	Approval Date: <i>4/6/2022</i>		

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) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45264	² Pool Code 98220	³ Pool Name Purple Sage Wolfcamp
⁴ Property Code 321000	⁵ Property Name SCOTER 6-31 FEDERAL COM	⁶ Well Number 44H
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3333.2'

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
P	6	25S	27E		365	SOUTH	320	EAST	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
A	31	24S	27E		330	NORTH	434'	EAST	EDDY
¹² Dedicated Acres 638.44	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.

- ¹⁶ 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"

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'10.39" (32.152886)
LONGITUDE = 104°13'19.27" (104.222019)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°09'09.95" (32.152764)
LONGITUDE = 104°13'17.48" (104.221522)
STATE PLANE NAD 83 (N.M. EAST)
N: 419372.80 E: 575786.39
STATE PLANE NAD 27 (N.M. EAST)
N: 419315.25 E: 534603.39

NAD 83 (BHL/LTP)
LATITUDE = 32°10'48.07" (32.180019)
LONGITUDE = 104°13'20.75" (104.222431)
NAD 27 (BHL/LTP)
LATITUDE = 32°10'47.64" (32.179899)
LONGITUDE = 104°13'18.96" (104.221934)
STATE PLANE NAD 83 (N.M. EAST)
N: 429243.15 E: 575648.43
STATE PLANE NAD 27 (N.M. EAST)
N: 429185.42 E: 534465.60

LINE TABLE

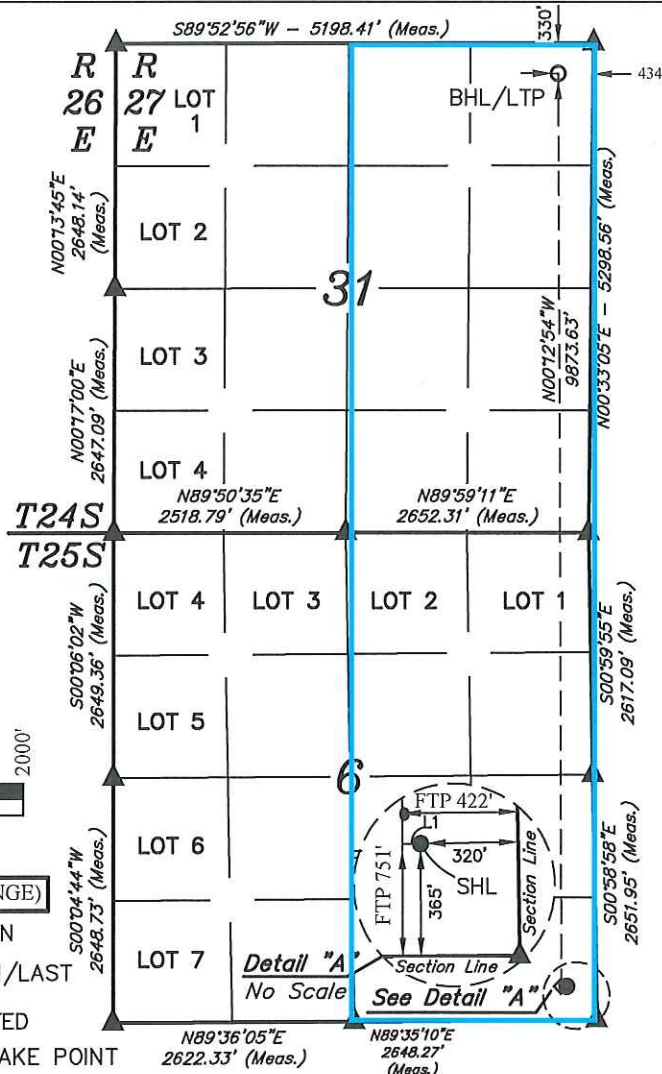
LINE	DIRECTION	LENGTH
L1	S89°36'56"W	59.68'



SCALE
DRAWN BY: S.F. 05-20-17

REV: 2 09-27-18 C.M.T. (SHL CHANGE)

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



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.

[Signature] 4/10/2019
Signature Date

Amithy Crawford

Printed Name

acrawford@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.

May 10, 2017

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number:



Cimarex

Final Pva

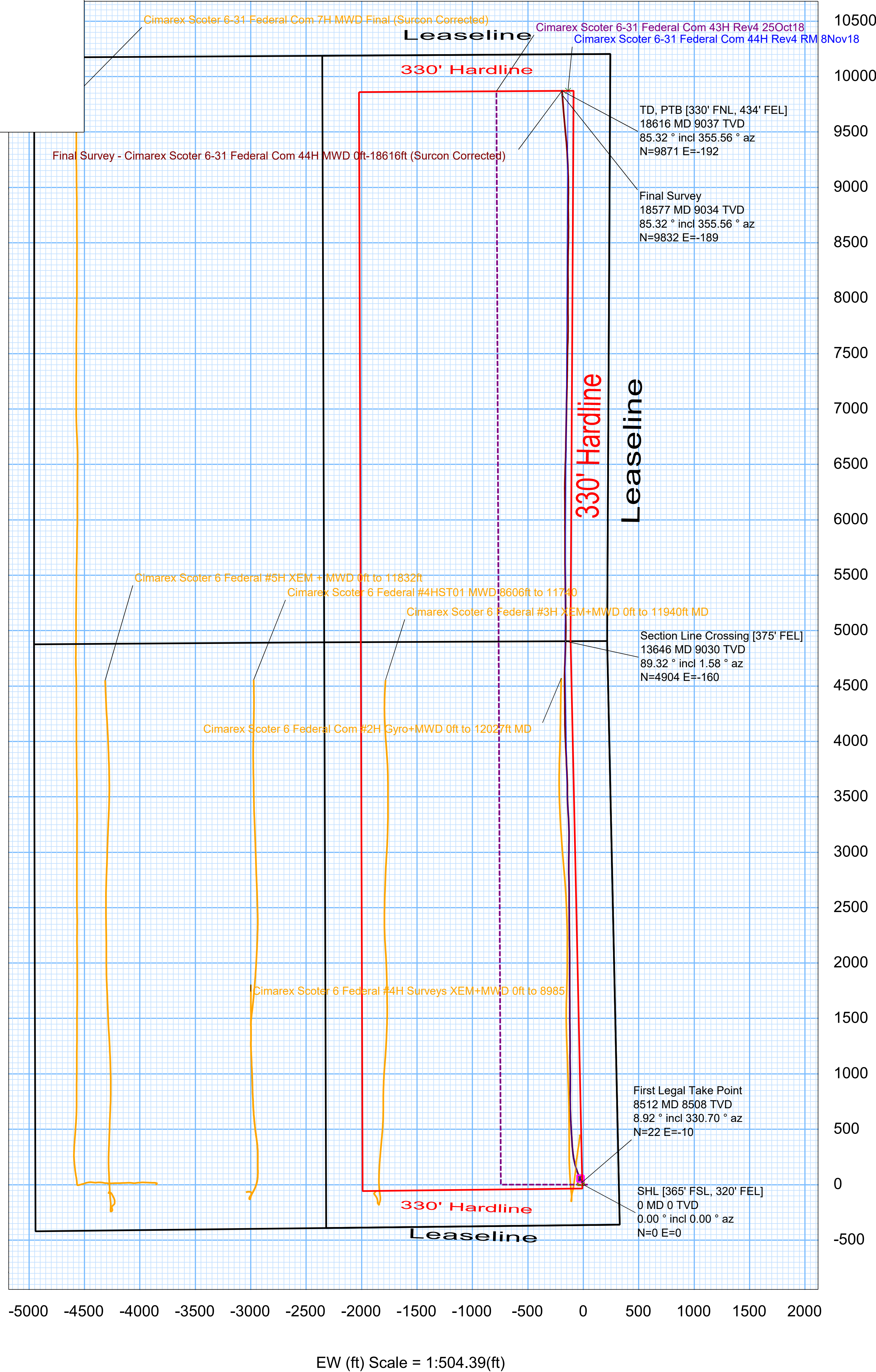
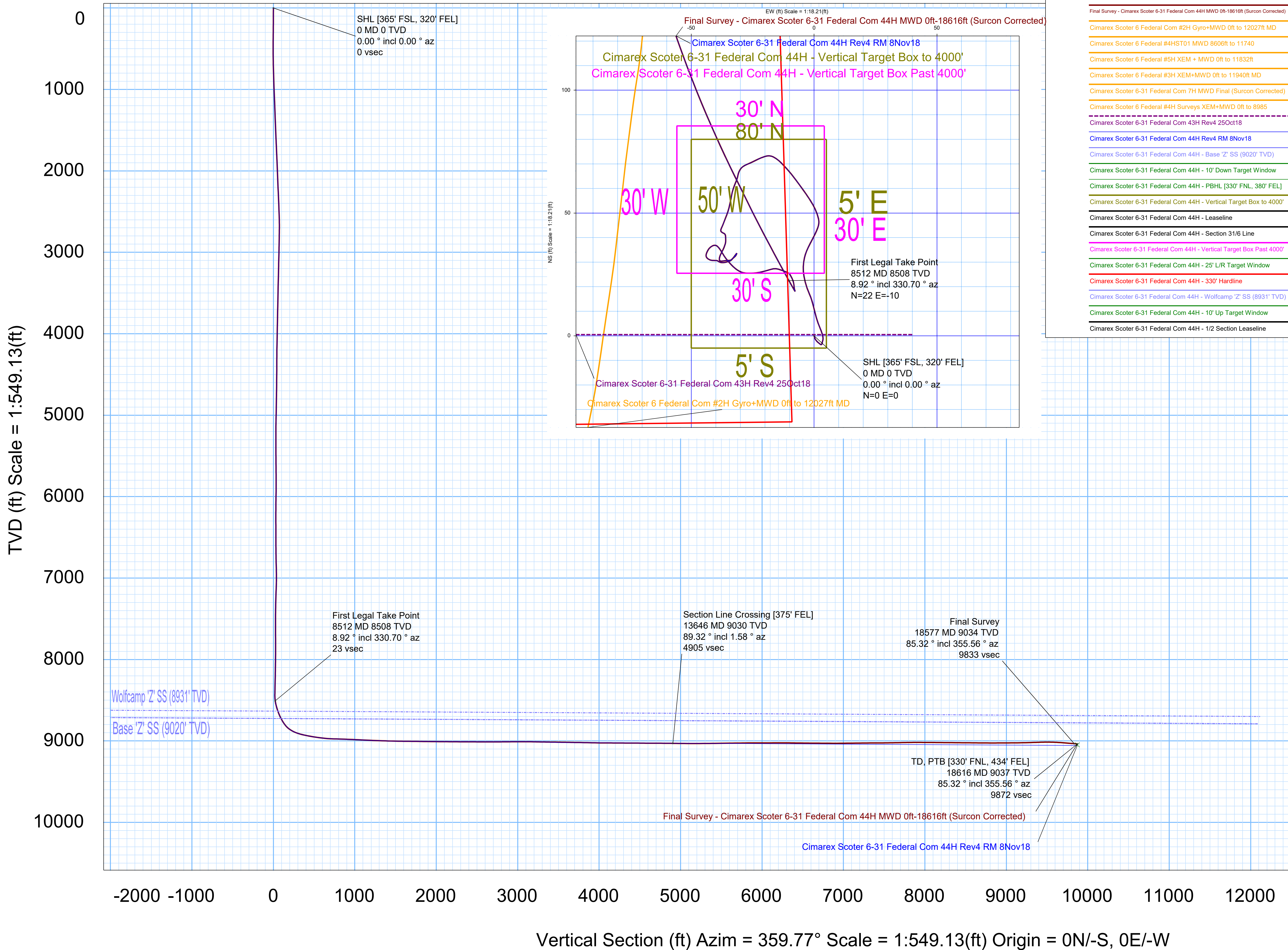


Borehole:				Well:				Field:				Structure:			
Original				Cimarex Scoter 6-31 Federal Com 44H				NM Eddy County (NAD 83)				Cimarex Scoter 6-31 Federal Com 44H			
Gravity & Magnetic Parameters						Surface Location				Miscellaneous					
Model: HDGM 2018		Dip: 59.837°		Date: 08-Nov-2018		NAD83 New Mexico State Plane, Eastern Zone, US Feet		Grid Conv: 0.0592°		Slot: Cimarex Scoter 6-31		TVD Ref: RKB(3359.2ft above MSL)			
MagDec: 7.33°		FS: 47869.904nT		Gravity FS: 998.432mgn (9.80665 Based)		Lat: N 32 9 10.39		Northings: 419372.8ftUS		Plan: Federal Com 44H		Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft (Surcon Corrected)			
						Lon: W 104 13 19.27		Easting: 575786.39ftUS							
								Scale Fact: 0.99991045							

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [365' FSL, 320' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
First Legal Take Point	8511.68	8.92	330.70	8507.89	22.51	22.47	-10.25	14.94
Section Line Crossing [375' FEL]	13645.60	89.32	1.58	9030.20	4904.92	4904.25	-160.42	0.60
Final Survey	18577.00	85.32	355.56	9033.66	9832.95	9832.20	-189.13	0.46
TD, PTB [330' FNL, 434' FEL]	18616.00	85.32	355.56	9036.85	9871.72	9870.96	-192.14	0.00

Grid North
Tot Corr (M->G 7.271°)
Mag Dec (7.330°)
Grid Conv (0.059°)

CONTROLLED
Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft (Surcon Corrected)
Drawing ref
Copy number of 3
Date 13-Nov-2018
1 Client
2 Client
3 Office
4 Office
Copy number for





**Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft
(Surcon Corrected) Survey Geodetic Report
(Def Survey)**



Report Date:	November 13, 2018 - 01:02 PM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	359.744 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Scoter 6-31 Federal Com 44H / Cimarex Scoter 6-31 Federal Com 44H	TVD Reference Datum:	RKB
Well:	Cimarex Scoter 6-31 Federal Com 44H	TVD Reference Elevation:	3359.200 ft above MSL
Borehole:	Original	Seabed / Ground Elevation:	3333.200 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.330 °
Survey Name:	Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft (Surcon Corrected)	Total Gravity Field Strength:	998.4320mgn (9.80665 Based)
Survey Date:	October 19, 2018	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	228.492 ° / 10091.501 ft / 6.677 / 1.117	Total Magnetic Field Strength:	47869.904 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.837 °
Location Lat / Long:	N 32° 9' 10.38706", W 104° 13' 19.26671"	Declination Date:	November 08, 2018
Location Grid N/E Y/X:	N 419372.800 NUS, E 575786.390 RUS	Magnetic Declination Model:	HDGM 2018
CRS Grid Convergence Angle:	0.0592 °	North Reference:	Grid North
Grid Scale Factor:	0.99991045	Grid Convergence Used:	0.0592 °
Version / Patch:	2.10.740.0	Total Corr Mag North->Grid North:	7.2710 °
		Local Coord Referenced To:	Structure Reference Point

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 [365' FSL, 320' FEL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	419372.80	575786.39	N 32 ° 9' 10.39 W 104 13 19.27		0.00	0.00
	100.00	0.25	163.78	100.00	-0.21	-0.21	0.06	0.25	419372.59	575786.45	N 32 ° 9' 10.38 W 104 13 19.27		163.78	0.22
	193.00	0.49	163.78	193.00	-0.79	-0.79	0.23	0.25	419372.01	575786.62	N 32 ° 9' 10.38 W 104 13 19.26		163.78	0.83
	200.00	0.51	161.59	200.00	-0.85	-0.85	0.25	0.44	419371.95	575786.64	N 32 ° 9' 10.38 W 104 13 19.26		163.70	0.89
	295.00	0.88	144.78	294.99	-1.85	-1.85	0.80	0.44	419370.95	575787.19	N 32 ° 9' 10.37 W 104 13 19.26		156.52	2.02
	300.00	0.88	143.59	299.99	-1.92	-1.91	0.85	0.37	419370.89	575787.24	N 32 ° 9' 10.37 W 104 13 19.26		156.07	2.09
	365.00	0.88	127.98	364.98	-2.63	-2.62	1.54	0.37	419370.18	575787.93	N 32 ° 9' 10.36 W 104 13 19.25		149.60	3.04
	400.00	0.83	129.55	399.98	-2.96	-2.95	1.94	0.16	419369.85	575788.33	N 32 ° 9' 10.36 W 104 13 19.24		146.58	3.53
	448.00	0.76	132.05	447.97	-3.39	-3.38	2.45	0.16	419369.42	575788.84	N 32 ° 9' 10.35 W 104 13 19.24		144.09	4.18
	500.00	0.39	87.07	499.97	-3.62	-3.60	2.88	1.07	419369.20	575789.27	N 32 ° 9' 10.35 W 104 13 19.23		141.35	4.61
	568.00	0.73	12.86	567.97	-3.18	-3.17	3.21	1.07	419369.63	575789.60	N 32 ° 9' 10.36 W 104 13 19.23		134.64	4.51
	600.00	0.82	13.99	599.97	-2.76	-2.75	3.31	0.29	419370.05	575789.70	N 32 ° 9' 10.36 W 104 13 19.23		129.70	4.30
	659.00	0.99	15.53	658.96	-1.86	-1.85	3.55	0.29	419370.95	575789.94	N 32 ° 9' 10.37 W 104 13 19.23		117.49	4.00
	700.00	1.25	358.71	699.95	-1.08	-1.06	3.63	1.01	419371.74	575790.02	N 32 ° 9' 10.38 W 104 13 19.22		106.26	3.79
	750.00	1.65	346.49	749.93	0.17	0.18	3.45	1.01	419372.98	575789.84	N 32 ° 9' 10.39 W 104 13 19.23		86.95	3.46
	800.00	1.82	340.59	799.91	1.62	1.63	3.02	0.49	419374.43	575789.41	N 32 ° 9' 10.40 W 104 13 19.23		61.63	3.43
	842.00	1.97	336.44	841.89	2.91	2.92	2.51	0.49	419375.72	575789.00	N 32 ° 9' 10.42 W 104 13 19.23		40.69	3.85
	900.00	2.09	339.96	899.85	4.82	4.83	1.75	0.30	419377.63	575788.14	N 32 ° 9' 10.43 W 104 13 19.25		19.93	5.14
	1000.00	2.32	345.12	999.78	8.50	8.50	0.61	0.30	419381.30	575787.00	N 32 ° 9' 10.47 W 104 13 19.26		4.08	8.52
	1030.00	2.39	346.47	1029.75	9.69	9.69	0.30	0.30	419382.49	575786.69	N 32 ° 9' 10.48 W 104 13 19.26		1.79	9.70
	1100.00	2.41	345.42	1099.69	12.54	12.54	-0.41	0.07	419385.34	575785.98	N 32 ° 9' 10.51 W 104 13 19.27		358.13	12.55
	1124.00	2.42	345.07	1123.67	13.52	13.52	-0.67	0.07	419386.32	575785.72	N 32 ° 9' 10.52 W 104 13 19.27		357.18	13.53
	1200.00	2.28	337.67	1199.61	16.47	16.47	-1.65	0.44	419389.26	575784.74	N 32 ° 9' 10.55 W 104 13 19.29		354.27	16.55
	1219.00	2.25	335.68	1218.59	17.16	17.16	-1.95	0.44	419389.95	575784.44	N 32 ° 9' 10.56 W 104 13 19.29		353.51	17.27
	1300.00	2.27	342.03	1299.53	20.14	20.13	-3.10	0.31	419392.93	575783.29	N 32 ° 9' 10.59 W 104 13 19.30		351.25	20.36
	1400.00	2.32	349.63	1399.45	24.02	24.00	-4.07	0.31	419396.89	575782.32	N 32 ° 9' 10.62 W 104 13 19.31		350.37	24.35
	1408.00	2.33	350.22	1407.44	24.34	24.32	-4.13	0.31	419397.12	575782.26	N 32 ° 9' 10.63 W 104 13 19.31		350.36	24.67
	1500.00	2.31	1.58	1499.37	28.04	28.02	-4.40	0.50	419400.82	575781.99	N 32 ° 9' 10.66 W 104 13 19.32		351.08	28.36
	1597.00	2.39	13.26	1596.29	31.96	31.94	-3.88	0.50	419404.74	575782.51	N 32 ° 9' 10.70 W 104 13 19.31		353.07	32.18
	1600.00	2.40	13.73	1599.28	32.08	32.07	-3.85	0.74	419404.86	575782.54	N 32 ° 9' 10.70 W 104 13 19.31		353.15	32.30
	1691.00	2.78	26.06	1690.19	35.91	35.90	-2.43	0.74	419408.70	575783.96	N 32 ° 9' 10.74 W 104 13 19.29		356.13	35.98
	1700.00	2.80	26.26	1699.18	36.30	36.29	-2.24	0.22	419409.09	575784.15	N 32 ° 9' 10.75 W 104 13 19.29		356.47	36.36
	1786.00	2.96	28.02	1785.07	40.14	40.13	-0.26	0.22	419412.93	575786.13	N 32 ° 9' 10.78 W 104 13 19.27		359.62	40.14
	1800.00	2.86	27.06	1799.05	40.76	40.77	0.06	0.77	419413.56	575786.45	N 32 ° 9' 10.79 W 104 13 19.27		0.09	40.77
	1880.00	2.34	20.07	1878.97	44.07	44.08	1.53	0.77	419416.88	575787.92	N 32 ° 9' 10.82 W 104 13 19.25		1.99	44.11
	1900.00	2.26	347.55	1898.96	44.84	44.85	1.77	1.37	419417.64	575788.16	N 32 ° 9' 10.83 W 104 13 19.25		2.26	44.88
	1975.00	2.23	347.02	1973.90	47.69	47.70	1.78	1.37	419420.50	575788.17	N 32 ° 9' 10.86 W 104 13 19.25		2.14	47.74
	2000.00	2.30	343.75	1998.88	48.65	48.66	1.53	0.59	419421.45	575787.92	N 32 ° 9' 10.87 W 104 13 19.25		1.81	48.68
	2100.00	2.65	332.66	2098.79	52.64	52.64	-0.09	0.59	419425.43	575786.30	N 32 ° 9' 10.91 W 104 13 19.27		359.90	52.64
	2168.00	2.93	326.77	2166.71	55.50	55.49	-1.76	0.59	419428.28	575784.63	N 32 ° 9' 10.94 W 104 13 19.29		358.18	55.52
	2200.00	2.96	325.86	2198.66	56.87	56.86	-2.67	0.18	419429.65	575783.72	N 32 ° 9' 10.95 W 104 13 19.30		357.31	56.92
	2261.00	3.03	324.19	2259.58	59.49	59.47	-4.50	0.18	419432.26	575781.89	N 32 ° 9' 10.98 W 104 13 19.32		355.67	59.64
	2300.00	2.98	323.93	2298.53	61.15	61.12	-5.70	0.14	419433.92	575780.69	N 32 ° 9' 10.99 W 104 13 19.33		354.67	61.39
	2355.00	2.90	323.54	2353.46	63.43	63.40	-7.37	0.14	419436.19	575779.02	N 32 ° 9' 11.01 W 104 13 19.35		353.37	63.82
	2400.00	2.86	321.58	2398.40	65.23	65.19	-8.74	0.24	419437.99	575777.65	N 32 ° 9' 11.03 W 104 13 19.37		352.36	65.77
	2500.00	2.78	317.05	2498.28	68.97	68.92	-11.94	0.24	419441.71	575774.45	N 32 ° 9' 11.07 W 104 13 19.40		350.17	69.95
	2543.00	2.75	315.02	2541.23	70.47	70.41	-13.38	0.24	419443.21	575773.01	N 32 ° 9' 11.08 W 104 13 19.42		349.24	71.67
	2600.00	2.38	305.17	2598.17	72.13	72.06	-15.32	1.01	419444.85	575771.07	N 32 ° 9' 11.10 W 104 13 19.44		348.00	73.67
	2637.00	2.19	297.15	2635.14	72.90	72.83	-16.58	1.01	419445.62	575769.82	N 32 ° 9' 11.11 W 104 13 19.46		347.18	74.69
	2700.00	2.20	265.09	2698.10	73.36	73.27	-18.85	1.92	419446.07	575767.54	N 32 ° 9' 11.11 W 104 13 19.49		345.57	75.66
	2731.00	2.43	251.47	2729.07	73.10	73.01	-20.06	1.92	419445.81	575766.33	N 32 ° 9' 11.11 W 104 13 19.50		344.63	75.72
	2800.00	2.37	245.02	2798.01	72.05	71.94	-22.75	0.40	419444.74	575763.65	N 32 ° 9' 11.10 W 104 13 19.53		342.46	75.45
	2825.00	2.36	242.62	2822.99	71.59	71.49	-23.67	0.40	419444.28	575762.72	N 32 ° 9' 11.09 W 104 13 19.54		341.68	75.31
	2900.00	2.51	246.42	2897.92	70.24	70.12	-26.55	0.29	419442.92	575759.85	N 32 ° 9' 11.08 W 104 13 19.57		339.26	74.98
	2920.00	2.55	247.36	2917.90	69.90	69.78	-27.36	0.29	419442.57	575759.03	N 32 ° 9' 11.08 W 104 13 19.58		338.59	74.95
	3000.00	1.77	219.56	2997.85	68.27	68.14	-29.79	1.60	419440.93	575756.60	N 32 ° 9' 11.06 W 104 13 19.61		336.39	74.36
	3014.00	1.70	212.53	3011.84	67.93	67.80	-30.04	1.60	419440.59	575756.35	N 32 ° 9' 11.06 W 104 13 19.62		336.10	74.15
	3100.00	1.48	192.07	3097.81	65.77	65.63	-30.96	0.70	419438.43	575755.44	N 32 ° 9' 11.04 W 104 13 19.63		334.75	72.57
	3109.00	1.47	189.65	3106.81	65.54	65.41	-31.00	0.70	419438.20	575755.39	N 32 ° 9' 11.03 W 104 13 19.63		334.64	72.38
	3200.00	1.32	201.96	3197.78	63.42	63.28	-31.59	0.37	419436.08	575754.80	N 32 ° 9' 11.01 W 104 13 19.63		333.47	70.73
	3202.00	1.32	202.26	3199.78	63.38	63.24	-31.61	0.37	419436.03	575754.79	N 32 ° 9' 11.01 W 104 13 19.63		333.44	70.70
	3296.00	1.44	201.75	3293.75	61.28	61.14	-32.45	0.13	419433.93	575753.94	N 32 ° 9' 10.99 W 104 13 19.64		332.04	69.22
	3300.00	1.44	201.50	3297.75	61.19	61.05	-32.49	0.19	419433.84	575753.90	N 32 ° 9' 10.99 W 104 13 19.64		331.98	69.15
	3400.00	1.34	194.80	3397.72	58.90	58.75	-33.25	0.19	419431.55	575753.14	N 32 ° 9' 10.97 W 104 13 19.65		330.49	67.51
	3484.00	1.27	188.43	3481.70	57.03	56.88	-33.64	0.19	419429.68	575752.76	N 32 ° 9' 10.95 W 104 13 19.66		329.40	66.08
	3500.00	1.22	189.23	3497.70	56.69	56.54	-33.69	0.31	419429.34	575752.70	N 32 ° 9' 10.95 W 104 13 19.66		329.21	65.82
	3577.00	1.00	194.13	3574.68	55.23									

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)
	4900.00	1.19	204.36	4897.49	35.50	35.33	-36.95	0.24	419408.13	575749.44	N 32° 9' 10.74" W	104° 13' 19.70"	313.72	51.13
	4982.00	1.37	208.34	4979.47	33.86	33.69	-37.77	0.24	419406.49	575748.62	N 32° 9' 10.72" W	104° 13' 19.71"	311.73	50.61
	5000.00	1.31	4997.46	5079.84	33.49	33.32	-37.96	0.49	419404.11	575748.43	N 32° 9' 10.72" W	104° 13' 19.71"	311.27	50.51
	5076.00	1.11	192.70	5073.45	31.99	31.82	-38.50	0.45	419404.61	575747.89	N 32° 9' 10.70" W	104° 13' 19.71"	309.57	49.95
	5100.00	0.91	185.52	5097.44	31.57	31.40	-38.57	0.98	419404.20	575747.82	N 32° 9' 10.70" W	104° 13' 19.72"	309.14	49.74
	5169.00	0.54	137.95	5166.44	30.78	30.61	-38.41	0.98	419403.41	575747.98	N 32° 9' 10.69" W	104° 13' 19.71"	308.55	49.12
	5200.00	0.63	109.04	5197.43	30.62	30.45	-38.15	0.98	419403.24	575748.24	N 32° 9' 10.69" W	104° 13' 19.71"	308.59	48.81
	5263.00	1.09	79.92	5260.43	30.60	30.44	-37.23	0.98	419403.24	575749.16	N 32° 9' 10.69" W	104° 13' 19.70"	309.27	48.09
	5300.00	1.04	82.13	5297.42	30.71	30.55	-36.55	0.17	419403.34	575749.84	N 32° 9' 10.69" W	104° 13' 19.69"	309.88	47.64
	5357.00	0.97	85.97	5354.41	30.81	30.65	-35.56	0.17	419403.45	575750.83	N 32° 9' 10.69" W	104° 13' 19.68"	310.76	46.95
	5400.00	0.78	86.97	5397.41	30.85	30.69	-34.90	0.45	419403.49	575751.49	N 32° 9' 10.69" W	104° 13' 19.67"	311.33	46.48
	5450.00	0.55	89.02	5447.40	30.87	30.71	-34.33	0.45	419403.51	575752.07	N 32° 9' 10.69" W	104° 13' 19.67"	311.82	46.06
	5500.00	0.62	96.57	5487.40	31.00	30.85	-33.85	0.59	419403.65	575752.54	N 32° 9' 10.69" W	104° 13' 19.66"	312.35	45.80
	5544.00	0.78	43.38	5541.40	31.34	31.19	-33.44	0.59	419403.98	575752.96	N 32° 9' 10.70" W	104° 13' 19.66"	313.01	45.72
	5600.00	0.78	49.02	5597.39	31.86	31.71	-32.89	0.14	419404.51	575753.51	N 32° 9' 10.70" W	104° 13' 19.65"	313.96	45.69
	5638.00	0.78	52.84	5635.39	32.18	32.04	-32.49	0.14	419404.84	575753.91	N 32° 9' 10.70" W	104° 13' 19.64"	314.60	45.63
	5700.00	0.75	34.82	5697.38	32.77	32.62	-31.92	0.39	419405.42	575754.47	N 32° 9' 10.71" W	104° 13' 19.64"	315.63	45.64
	5732.00	0.76	25.39	5729.38	33.13	32.99	-31.71	0.39	419405.78	575754.68	N 32° 9' 10.71" W	104° 13' 19.64"	316.13	45.76
	5800.00	0.27	18.68	5797.38	33.69	33.55	-31.47	0.73	419406.34	575754.93	N 32° 9' 10.72" W	104° 13' 19.63"	316.83	45.99
	5826.00	0.09	356.51	5823.38	33.76	33.62	-31.45	0.73	419406.42	575754.95	N 32° 9' 10.72" W	104° 13' 19.63"	316.92	46.04
	5900.00	0.58	218.75	5897.38	33.53	33.39	-31.69	0.88	419406.19	575754.71	N 32° 9' 10.72" W	104° 13' 19.63"	316.50	46.03
	6000.00	1.46	215.53	5997.36	32.11	31.96	-32.74	0.88	419404.76	575753.65	N 32° 9' 10.70" W	104° 13' 19.65"	314.31	45.75
	6013.00	1.57	210.36	6010.36	31.83	31.68	-32.94	0.83	419404.48	575753.45	N 32° 9' 10.75" W	104° 13' 19.65"	313.89	45.70
	6100.00	1.21	249.12	6097.33	30.54	30.38	-34.48	1.01	419403.18	575751.91	N 32° 9' 10.69" W	104° 13' 19.67"	311.38	45.96
	6107.00	1.20	252.47	6104.33	30.49	30.34	-34.62	1.01	419403.13	575751.77	N 32° 9' 10.69" W	104° 13' 19.67"	311.22	46.03
	6200.00	0.80	257.91	6197.32	30.07	29.91	-36.19	0.44	419402.70	575750.20	N 32° 9' 10.68" W	104° 13' 19.69"	309.57	46.95
	6201.00	0.80	258.00	6198.32	30.06	29.90	-36.20	0.44	419402.70	575750.19	N 32° 9' 10.68" W	104° 13' 19.69"	309.56	46.96
	6294.00	0.94	272.98	6291.31	29.98	29.81	-37.60	0.29	419402.61	575748.79	N 32° 9' 10.68" W	104° 13' 19.70"	308.41	47.98
	6300.00	0.92	274.88	6297.30	29.98	29.81	-37.70	0.59	419402.61	575748.70	N 32° 9' 10.68" W	104° 13' 19.70"	308.34	48.06
	6388.00	0.81	309.16	6385.29	30.44	30.27	-38.89	0.59	419403.06	575747.51	N 32° 9' 10.69" W	104° 13' 19.72"	307.90	49.28
	6400.00	0.77	305.01	6397.29	30.54	30.37	-39.02	0.56	419403.16	575747.38	N 32° 9' 10.69" W	104° 13' 19.72"	307.89	49.44
	6482.00	0.68	268.93	6479.29	30.86	30.68	-39.96	0.56	419403.47	575746.43	N 32° 9' 10.69" W	104° 13' 19.73"	307.51	50.38
	6500.00	0.75	269.47	6497.29	30.85	30.67	-40.18	0.41	419403.47	575746.21	N 32° 9' 10.69" W	104° 13' 19.73"	307.36	50.55
	6575.00	1.06	271.96	6572.28	30.88	30.70	-41.37	0.41	419403.49	575745.02	N 32° 9' 10.69" W	104° 13' 19.75"	306.57	51.51
	6600.00	1.06	280.71	6597.27	30.93	30.75	-41.83	0.65	419403.54	575744.56	N 32° 9' 10.69" W	104° 13' 19.75"	306.32	51.91
	6669.00	1.19	302.68	6666.26	31.44	31.25	-43.06	0.65	419404.05	575743.33	N 32° 9' 10.70" W	104° 13' 19.77"	305.97	53.21
	6700.00	1.01	315.47	6697.25	31.82	31.62	-43.52	0.98	419404.42	575742.87	N 32° 9' 10.70" W	104° 13' 19.77"	306.00	53.80
	6763.00	0.89	352.46	6760.25	32.70	32.50	-43.98	0.98	419405.30	575742.42	N 32° 9' 10.71" W	104° 13' 19.78"	306.47	54.69
	6800.00	1.23	12.98	6797.24	33.37	33.18	-43.93	1.37	419405.97	575742.47	N 32° 9' 10.72" W	104° 13' 19.78"	307.06	55.05
	6858.00	1.92	27.73	6855.22	34.84	34.64	-43.33	1.37	419407.44	575743.06	N 32° 9' 10.73" W	104° 13' 19.77"	308.64	55.48
	6900.00	1.71	42.68	6897.20	35.92	35.73	-42.58	1.23	419408.52	575743.81	N 32° 9' 10.74" W	104° 13' 19.76"	310.00	55.59
	6952.00	1.65	64.50	6949.17	36.80	36.62	-41.38	1.23	419409.42	575745.01	N 32° 9' 10.75" W	104° 13' 19.75"	311.51	55.26
	7000.00	1.27	69.19	6997.16	37.03	36.85	-40.23	1.87	419405.88	575746.17	N 32° 9' 10.75" W	104° 13' 19.73"	312.49	54.56
	7046.00	1.44	133.57	7043.15	36.56	36.39	-39.30	1.87	419409.19	575747.09	N 32° 9' 10.75" W	104° 13' 19.72"	312.80	53.56
	7100.00	2.05	145.11	7097.12	35.30	35.13	-38.26	1.30	419407.93	575748.13	N 32° 9' 10.74" W	104° 13' 19.71"	312.56	51.94
	7140.00	2.53	149.95	7137.09	33.95	33.78	-37.41	1.30	419406.58	575748.99	N 32° 9' 10.72" W	104° 13' 19.70"	312.08	50.40
	7200.00	2.34	143.64	7197.04	31.81	31.64	-36.02	0.54	419404.44	575750.38	N 32° 9' 10.70" W	104° 13' 19.69"	311.30	47.94
	7235.00	2.25	139.50	7232.01	30.70	30.55	-35.15	0.54	419403.34	575751.25	N 32° 9' 10.69" W	104° 13' 19.68"	310.99	46.57
	7300.00	1.93	136.05	7296.96	28.94	28.79	-33.56	0.52	419401.58	575752.84	N 32° 9' 10.67" W	104° 13' 19.66"	310.62	44.21
	7330.00	1.79	134.05	7326.95	28.24	28.10	-32.87	0.52	419400.89	575753.52	N 32° 9' 10.67" W	104° 13' 19.65"	310.52	43.24
	7400.00	1.78	123.20	7396.92	26.88	26.74	-31.17	0.48	419399.54	575755.22	N 32° 9' 10.65" W	104° 13' 19.63"	310.62	41.07
	7423.00	1.79	119.66	7419.90	26.50	26.37	-30.56	0.48	419399.16	575755.83	N 32° 9' 10.65" W	104° 13' 19.62"	310.78	40.37
	7500.00	1.75	98.47	7496.87	26.73	26.60	-28.87	0.41	419398.40	575756.21	N 32° 9' 10.64" W	104° 13' 19.60"	312.07	38.20
	7517.00	1.77	93.84	7513.86	25.67	25.54	-27.84	0.85	419398.34	575756.55	N 32° 9' 10.64" W	104° 13' 19.59"	312.54	37.78
	7600.00	2.03	87.83	7596.81	25.63	25.51	-25.09	0.40	419398.31	575761.30	N 32° 9' 10.64" W	104° 13' 19.56"	315.48	35.78
	7611.00	2.07	87.15	7607.81	25.64	25.53	-24.70	0.40	419398.33	575761.70	N 32° 9' 10.64" W	104° 13' 19.55"	315.95	35.52
	7700.00	2.28	76.94	7696.74	26.11	26.01	-21.37	0.49	419398.81	575765.03	N 32° 9' 10.64" W	104° 13' 19.51"	320.60	33.66
	7704.00	2.29	76.53	7700.74	26.14	26.05	-21.21	0.49	419398.84	575765.18	N 32° 9' 10.65" W	104° 13' 19.51"	320.84	33.59
	7798.00	2.20	72.12	7794.67	27.12	27.04	-17.67	0.21	419399.84	575768.72	N 32° 9' 10.65" W	104° 13' 19.47"	326.84	32.30
	7800.00	2.19	72.73	7796.67	27.14	27.06	-17.59	1.37	419399.86	575768.80	N 32° 9' 10.66" W	104° 13' 19.47"	326.97	32.28
	7891.00	1.88	107.38	7887.61	27.20	27.13	-14.51	1.37	419399.93	575771.88	N 32° 9' 10.66" W	104° 13' 19.44"	331.86	30.77
	7900.00	1.88	107.80	7896.61	27.10	27.04	-14.23	0.15	419399.84	575772.16	N 32° 9' 10.65" W	104° 13' 19.43"	332.24	30.56
	7905.00	1.89	111.74	7901.56	26.15	26.10	-11.60	0.15	419395.89	575774.79	N 32° 9' 10.65" W	104° 13' 19.40"	336.03	28.56
	8000.00	1.69	114.24	7996.55	25.96	25.91	-11.17	1.46	419398.71	575775.22	N 32° 9' 10.64" W	104° 13' 19.40"	336.68	28.22
	8080.00	0.75	150.20	8076.54	25.02	24.98	-9.84	1.46	419397.77	575776.55	N 32° 9' 10.63" W	104° 13' 19.38"	338.50	26.84
	8100.00	0.87	151.01	8096.53	24.77	24.73	-9.70	0.58	419397.53	575776.69	N 32° 9' 10.63" W	104° 13' 19.38"	338.59	26.56
	8173.00	1.29	152.74	8169.52	23.56	23.52	-9.06	0.58	419396.32	575777.34	N 32° 9' 10.62" W	104° 13' 19.37"	338.94	25.20
	8200.00	1.26	156.83	8196.52	23.01	22								

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)
	10200.00	88.50	359.34	9002.17	1460.42	1459.89	-121.69	0.45	420832.55	575664.71	N 32° 9' 24.83" W	104° 13' 20.66"	355.23	1464.95
	10213.00	88.56	359.34	9002.50	1473.41	1472.88	-121.84	0.45	420845.55	575664.56	N 32° 9' 24.96" W	104° 13' 20.67"	355.27	1477.91
	10300.00	89.35	0.05	9004.09	1560.35	1557.86	-122.31	1.22	420949.59	575664.52	N 32° 9' 25.82" W	104° 13' 20.67"	355.52	1564.65
	10308.00	89.42	0.11	9004.17	1568.39	1567.86	-122.30	1.22	420940.56	575664.10	N 32° 9' 25.90" W	104° 13' 20.67"	355.54	1572.63
	10400.00	89.38	359.71	9005.14	1660.39	1659.86	-122.44	0.43	421032.51	575663.96	N 32° 9' 26.81" W	104° 13' 20.67"	355.78	1664.37
	10401.00	89.38	359.71	9005.15	1661.39	1660.86	-122.45	0.43	421033.51	575663.95	N 32° 9' 26.82" W	104° 13' 20.67"	355.78	1665.37
	10495.00	89.42	359.98	9006.13	1755.38	1754.85	-122.70	0.29	421127.49	575663.70	N 32° 9' 27.75" W	104° 13' 20.67"	356.00	1759.14
	10500.00	89.41	359.98	9006.18	1760.38	1759.85	-122.70	0.13	421132.49	575663.70	N 32° 9' 27.80" W	104° 13' 20.67"	356.01	1764.12
	10589.00	89.31	359.93	9007.17	1849.38	1848.85	-122.77	0.13	421221.48	575663.63	N 32° 9' 28.67" W	104° 13' 20.67"	356.20	1852.92
	10600.00	89.33	359.95	9007.31	1860.38	1859.85	-122.79	0.20	421232.48	575663.61	N 32° 9' 28.79" W	104° 13' 20.67"	356.22	1863.89
	10683.00	89.45	0.06	9008.19	1943.37	1942.84	-122.78	0.20	421315.46	575663.62	N 32° 9' 29.61" W	104° 13' 20.67"	356.38	1946.72
	10700.00	89.46	0.05	9008.35	1960.37	1959.84	-122.77	0.11	421332.46	575663.63	N 32° 9' 29.78" W	104° 13' 20.67"	356.42	1963.68
	10775.00	89.52	359.98	9009.03	2036.37	2035.84	-122.75	0.11	421408.45	575663.65	N 32° 9' 30.53" W	104° 13' 20.67"	356.55	2039.53
	10800.00	89.54	359.65	9009.23	2060.36	2059.84	-122.83	1.38	421432.45	575663.57	N 32° 9' 30.77" W	104° 13' 20.67"	356.59	2063.50
	10870.00	89.59	358.68	9009.76	2130.36	2129.83	-123.85	1.38	421502.43	575662.55	N 32° 9' 31.46" W	104° 13' 20.68"	356.67	2133.42
	10900.00	89.55	358.98	9009.98	2160.35	2159.82	-124.46	1.01	421532.42	575661.94	N 32° 9' 31.76" W	104° 13' 20.69"	356.70	2163.40
	10963.00	89.48	359.61	9010.51	2223.35	2222.81	-125.24	1.01	421595.41	575661.16	N 32° 9' 32.38" W	104° 13' 20.70"	356.78	2226.34
	11000.00	89.67	359.43	9010.79	2260.35	2259.81	-125.55	0.71	421632.40	575660.86	N 32° 9' 32.75" W	104° 13' 20.70"	356.82	2262.39
	11057.00	89.97	359.16	9010.96	2317.35	2316.80	-126.25	0.71	421689.39	575660.16	N 32° 9' 33.31" W	104° 13' 20.71"	356.88	2320.24
	11100.00	89.89	359.40	9011.02	2360.34	2359.80	-126.79	0.60	421732.38	575659.62	N 32° 9' 33.74" W	104° 13' 20.71"	356.92	2363.20
	11151.00	89.79	359.69	9011.16	2411.34	2410.80	-127.19	0.60	421783.38	575659.21	N 32° 9' 34.24" W	104° 13' 20.72"	356.98	2414.15
	11200.00	89.54	359.65	9011.45	2460.34	2459.80	-127.47	0.52	421832.37	575658.93	N 32° 9' 34.73" W	104° 13' 20.72"	357.03	2463.10
	11245.00	89.31	359.61	9011.90	2505.34	2504.79	-127.76	0.52	421871.36	575658.64	N 32° 9' 34.82" W	104° 13' 20.72"	357.08	2508.05
	11300.00	89.73	359.87	9012.36	2560.34	2559.79	-128.01	0.90	421932.36	575658.99	N 32° 9' 35.72" W	104° 13' 20.73"	357.14	2562.99
	11339.00	90.03	0.05	9012.44	2599.34	2598.79	-128.04	0.90	421971.35	575658.36	N 32° 9' 36.10" W	104° 13' 20.72"	357.18	2601.94
	11400.00	90.15	359.43	9012.35	2660.34	2659.79	-128.32	1.03	422032.35	575658.08	N 32° 9' 36.71" W	104° 13' 20.73"	357.24	2662.88
	11433.00	90.21	359.10	9012.24	2693.34	2692.79	-128.74	1.03	422065.34	575657.66	N 32° 9' 37.03" W	104° 13' 20.73"	357.26	2695.86
	11500.00	90.30	358.69	9011.94	2760.33	2759.77	-130.03	0.63	422132.32	575656.37	N 32° 9' 37.70" W	104° 13' 20.75"	357.30	2762.84
	11527.00	90.34	358.52	9011.79	2787.32	2786.77	-130.69	0.63	422159.31	575655.71	N 32° 9' 37.96" W	104° 13' 20.75"	357.31	2789.83
	11600.00	90.43	0.09	9011.30	2860.32	2859.76	-131.58	2.15	422232.29	575654.82	N 32° 9' 38.69" W	104° 13' 20.76"	357.37	2862.78
	11621.00	90.45	0.54	9011.14	2881.31	2880.76	-131.46	2.15	422253.29	575654.94	N 32° 9' 38.89" W	104° 13' 20.76"	357.39	2883.75
	11700.00	90.36	0.59	9010.59	2960.30	2959.75	-130.68	0.13	422332.28	575655.72	N 32° 9' 39.68" W	104° 13' 20.75"	357.47	2962.63
	11715.00	90.34	0.60	9010.50	2974.30	2973.75	-130.53	0.13	422347.28	575655.67	N 32° 9' 39.86" W	104° 13' 20.75"	357.49	2977.61
	11800.00	90.10	0.70	9010.17	3069.29	3068.74	-129.56	0.13	422432.76	575655.84	N 32° 9' 40.67" W	104° 13' 20.74"	357.58	3062.48
	11809.00	90.07	0.71	9010.16	3069.29	3068.74	-129.45	0.31	422441.26	575655.95	N 32° 9' 40.75" W	104° 13' 20.74"	357.58	3071.47
	11900.00	89.31	359.80	9010.66	3160.28	3159.74	-129.05	1.31	422532.25	575657.35	N 32° 9' 41.65" W	104° 13' 20.73"	357.66	3162.37
	11903.00	89.28	359.77	9010.69	3163.28	3162.74	-129.06	1.31	422535.25	575657.34	N 32° 9' 41.68" W	104° 13' 20.73"	357.66	3165.37
	11997.00	88.76	357.66	9012.30	3257.26	3256.69	-131.17	2.31	422629.20	575655.24	N 32° 9' 42.61" W	104° 13' 20.75"	357.69	3259.33
	12000.00	88.78	357.61	9012.37	3260.25	3259.69	-131.29	1.79	422632.19	575655.11	N 32° 9' 42.64" W	104° 13' 20.75"	357.69	3262.33
	12091.00	89.42	356.11	9013.79	3351.12	3350.54	-136.27	1.79	422723.03	575650.13	N 32° 9' 43.54" W	104° 13' 20.81"	357.67	3353.31
	12100.00	89.40	356.22	9013.89	3360.10	3359.52	-136.88	1.23	422732.01	575649.31	N 32° 9' 43.63" W	104° 13' 20.82"	357.67	3362.31
	12185.00	89.24	357.25	9014.89	3444.97	3444.37	-141.72	1.23	422816.86	575644.69	N 32° 9' 44.47" W	104° 13' 20.87"	357.64	3447.29
	12200.00	89.10	357.71	9015.10	3459.96	3459.36	-142.38	3.06	422831.84	575643.96	N 32° 9' 44.62" W	104° 13' 20.88"	357.64	3462.29
	12279.00	88.97	0.15	9016.36	3538.94	3538.33	-143.85	3.10	422910.80	575642.56	N 32° 9' 45.40" W	104° 13' 20.90"	357.65	3541.25
	12300.00	88.96	359.80	9016.74	3559.93	3559.33	-143.86	1.66	422931.80	575642.54	N 32° 9' 45.61" W	104° 13' 20.90"	357.69	3562.23
	12373.00	88.93	358.59	9018.08	3632.92	3632.30	-144.88	1.66	423004.77	575641.52	N 32° 9' 46.33" W	104° 13' 20.91"	357.72	3635.19
	12400.00	89.04	358.16	9018.56	3659.90	3659.29	-145.65	1.63	423031.75	575640.76	N 32° 9' 46.60" W	104° 13' 20.92"	357.72	3662.19
	12467.00	89.31	357.11	9019.53	3726.85	3726.22	-148.41	1.63	423098.68	575637.99	N 32° 9' 47.26" W	104° 13' 20.95"	357.72	3729.18
	12500.00	89.20	357.42	9019.96	3759.82	3759.18	-149.98	1.00	423131.64	575636.42	N 32° 9' 47.59" W	104° 13' 20.97"	357.72	3762.17
	12560.00	89.00	357.99	9020.90	3819.77	3819.13	-152.38	1.00	423191.58	575634.02	N 32° 9' 48.18" W	104° 13' 20.99"	357.72	3822.17
	12600.00	88.84	357.62	9021.65	3859.74	3859.09	-153.92	1.02	423231.54	575632.49	N 32° 9' 48.58" W	104° 13' 21.01"	357.72	3862.16
	12655.00	88.62	357.10	9022.87	3914.68	3914.02	-156.45	1.02	423286.46	575629.99	N 32° 9' 49.12" W	104° 13' 21.04"	357.71	3917.15
	12700.00	88.92	357.26	9023.84	3958.62	3957.96	-158.66	0.75	423331.95	575627.74	N 32° 9' 49.56" W	104° 13' 21.06"	357.70	3962.13
	12749.00	89.24	357.44	9024.63	4008.57	4007.90	-160.93	0.75	423380.33	575625.48	N 32° 9' 50.05" W	104° 13' 21.09"	357.70	4011.13
	12800.00	89.64	357.88	9025.13	4059.54	4058.85	-163.01	1.17	423431.28	575623.40	N 32° 9' 50.55" W	104° 13' 21.11"	357.70	4062.12
	12842.00	89.97	358.25	9025.27	4101.52	4100.83	-164.43	1.17	423473.25	575621.98	N 32° 9' 50.97" W	104° 13' 21.13"	357.70	4104.12
	12900.00	89.65	359.21	9025.46	4159.51	4158.81	-165.71	1.74	423531.23	575620.69	N 32° 9' 51.54" W	104° 13' 21.14"	357.72	4162.11
	12937.00	89.45	359.82	9025.75	4196.51	4195.81	-166.03	1.74	423568.22	575620.38	N 32° 9' 51.91" W	104° 13' 21.15"	357.73	4199.09
	13000.00	89.68	359.67	9026.23	4259.51	4258.81	-166.30	0.43	423631.22	575620.10	N 32° 9' 52.53" W	104° 13' 21.15"	357.76	4262.05
	13031.00	89.79	359.60	9026.37	4290.51	4289.80	-166.50	0.43	423662.21	575619.90	N 32° 9' 52.84" W	104° 13' 21.15"	357.78	4293.03
	13100.00	89.84	359.36	9026.60	4359.50	4358.80	-167.13	0.36	423731.20	575618.28	N 32° 9' 53.52" W	104° 13' 21.16"	357.80	4362.00
	13126.00	89.86	359.27	9026.66	4385.50	4384.80	-167.44	0.36	423757.20	575617.99	N 32° 9' 53.78" W	104° 13' 21.16"	357.81	4388.00
	13200.00	89.48	359.11	9027.09	4459.49	4458.79	-169.49	0.55	423831.18	575617.92	N 32° 9' 54.61" W	104° 13' 21.17"	357.84	4461.97
	13220.00	89.38	359.07	9027.29	4479.50	4478.79	-168.80	0.55	423861.18	575617.61	N 32° 9' 54.71" W	104° 13' 21.18"	357.84	4481.97
	13300.00	89.3												

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)
	16100.00	89.96	0.80	9025.16	7358.81	7358.23	-145.11	1.07	426730.36	575641.29	N 32 10 23.20	W 104 13 20.87	358.87	7359.66
	16128.00	89.66	0.82	9025.25	7386.80	7386.23	-144.72	1.07	426758.35	575641.68	N 32 10 23.48	W 104 13 20.86	358.88	7387.65
	16200.00	90.59	0.80	9025.09	7459.79	7459.22	-143.70	1.30	426830.34	575642.70	N 32 10 24.19	W 104 13 20.85	358.90	7459.60
	16223.00	90.89	0.79	9024.79	7481.78	7481.22	-143.38	1.30	426853.33	575643.02	N 32 10 24.42	W 104 13 20.84	358.90	7482.59
	16300.00	90.84	1.73	9023.63	7558.75	7558.19	-141.69	1.22	426930.30	575644.71	N 32 10 25.18	W 104 13 20.82	358.93	7559.52
	16317.00	90.83	1.94	9023.38	7575.73	7575.18	-141.15	1.22	426947.28	575645.26	N 32 10 25.35	W 104 13 20.82	358.93	7576.49
	16400.00	91.01	1.10	9022.05	7658.68	7658.14	-138.94	1.03	427030.24	575647.46	N 32 10 26.17	W 104 13 20.79	358.96	7659.40
	16411.00	91.03	0.99	9021.86	7669.68	7669.13	-138.74	1.03	427041.23	575647.66	N 32 10 26.28	W 104 13 20.79	358.96	7670.39
	16500.00	91.10	0.17	9020.21	7758.65	7758.11	-137.84	0.93	427130.20	575648.56	N 32 10 27.16	W 104 13 20.78	358.98	7759.34
	16505.00	91.10	0.12	9020.11	7763.65	7763.11	-137.83	0.93	427135.20	575648.57	N 32 10 27.21	W 104 13 20.78	358.98	7764.34
	16599.00	90.34	358.99	9018.93	7857.64	7857.10	-138.56	1.45	427229.18	575647.84	N 32 10 28.14	W 104 13 20.78	358.99	7858.32
	16600.00	90.33	359.00	9018.92	7858.64	7858.10	-138.58	1.60	427230.18	575647.82	N 32 10 28.15	W 104 13 20.78	358.99	7859.32
	16693.00	89.59	0.29	9018.99	7951.64	7951.09	-139.15	1.60	427323.17	575647.25	N 32 10 29.07	W 104 13 20.79	359.00	7952.31
	16700.00	89.60	0.32	9019.04	7958.64	7958.09	-139.12	0.42	427330.17	575647.29	N 32 10 29.14	W 104 13 20.79	359.00	7959.31
	16788.00	89.72	0.67	9019.56	8046.63	8046.09	-138.36	0.42	427418.15	575648.05	N 32 10 30.01	W 104 13 20.78	359.01	8047.28
	16800.00	89.69	0.52	9019.62	8058.63	8058.09	-138.23	1.25	427430.15	575648.17	N 32 10 30.13	W 104 13 20.78	359.02	8059.27
	16882.00	89.48	359.52	9020.22	8140.62	8140.09	-138.20	1.25	427512.14	575648.20	N 32 10 30.94	W 104 13 20.78	359.03	8141.26
	16900.00	89.52	359.60	9020.37	8158.62	8158.08	-138.34	0.50	427530.14	575648.06	N 32 10 31.11	W 104 13 20.78	359.03	8159.26
	16976.00	89.69	359.94	9020.90	8234.62	8234.08	-138.64	0.50	427606.13	575647.76	N 32 10 31.87	W 104 13 20.78	359.04	8235.25
	17000.00	89.65	0.09	9021.03	8258.62	8258.08	-138.64	0.64	427630.13	575647.76	N 32 10 32.10	W 104 13 20.78	359.04	8259.24
	17100.00	89.49	0.71	9021.79	8358.61	8358.08	-137.94	0.64	427730.11	575648.46	N 32 10 33.09	W 104 13 20.77	359.05	8359.21
	17164.00	89.38	1.11	9022.42	8422.59	8422.06	-136.92	0.64	427794.09	575649.48	N 32 10 33.73	W 104 13 20.76	359.07	8423.18
	17200.00	89.49	0.94	9022.78	8458.59	8458.06	-136.28	0.55	427830.08	575650.13	N 32 10 34.08	W 104 13 20.75	359.08	8459.15
	17257.00	89.66	0.68	9023.20	8515.57	8515.05	-135.47	0.55	427887.07	575650.93	N 32 10 34.65	W 104 13 20.74	359.09	8516.13
	17300.00	89.41	0.66	9023.55	8558.56	8558.04	-134.97	0.59	427930.06	575651.43	N 32 10 35.07	W 104 13 20.73	359.10	8559.11
	17351.00	89.11	0.63	9024.21	8609.55	8609.04	-134.39	0.59	427981.05	575652.01	N 32 10 35.58	W 104 13 20.73	359.11	8610.09
	17400.00	89.46	359.68	9024.82	8658.55	8658.03	-134.26	2.08	428030.04	575652.14	N 32 10 36.06	W 104 13 20.72	359.11	8659.07
	17445.00	89.79	358.80	9025.11	8703.54	8703.03	-134.86	2.08	428075.03	575651.54	N 32 10 36.51	W 104 13 20.73	359.11	8704.07
	17500.00	89.75	359.33	9025.33	8758.54	8758.02	-135.76	0.96	428130.02	575650.64	N 32 10 37.05	W 104 13 20.74	359.11	8759.07
	17539.00	89.72	359.70	9025.51	8797.54	8797.02	-136.09	0.96	428169.01	575650.31	N 32 10 37.44	W 104 13 20.74	359.11	8798.07
	17600.00	90.26	0.49	9025.53	8858.54	8858.02	-135.99	1.57	428230.01	575650.41	N 32 10 38.04	W 104 13 20.74	359.12	8859.06
	17633.00	90.55	0.92	9025.29	8891.53	8891.01	-135.58	1.57	428263.00	575650.82	N 32 10 38.37	W 104 13 20.74	359.13	8892.05
	17700.00	90.21	0.01	9024.85	8958.52	8958.01	-135.04	1.44	428329.99	575651.36	N 32 10 39.03	W 104 13 20.73	359.14	8959.03
	17727.00	90.07	359.65	9024.78	8985.52	8985.01	-135.12	1.44	428356.99	575651.29	N 32 10 39.30	W 104 13 20.73	359.14	8986.02
	17800.00	90.39	359.03	9024.49	9058.52	9058.00	-135.96	0.95	428429.97	575650.45	N 32 10 40.02	W 104 13 20.74	359.14	9059.02
	17900.00	90.82	358.19	9023.43	9158.49	9157.97	-138.38	0.95	428529.93	575648.02	N 32 10 41.01	W 104 13 20.77	359.13	9159.01
	17915.00	90.89	358.06	9023.21	9173.49	9172.96	-138.87	0.95	428544.92	575647.53	N 32 10 41.16	W 104 13 20.77	359.13	9174.01
	18000.00	91.47	357.01	9021.46	9258.40	9257.86	-142.53	1.41	428629.81	575643.88	N 32 10 42.00	W 104 13 20.81	359.12	9258.96
	18040.00	91.75	356.52	9020.33	9298.33	9297.78	-144.78	1.41	428669.73	575641.62	N 32 10 42.39	W 104 13 20.84	359.11	9298.91
	18100.00	91.99	355.88	9018.37	9358.19	9357.61	-148.75	1.13	428729.56	575637.65	N 32 10 42.98	W 104 13 20.88	359.09	9358.80
	18103.00	92.00	355.85	9018.27	9361.18	9360.61	-148.97	1.13	428732.55	575637.43	N 32 10 43.01	W 104 13 20.89	359.09	9361.79
	18196.00	91.44	354.33	9015.48	9453.83	9453.22	-156.93	1.74	428825.15	575629.48	N 32 10 43.93	W 104 13 20.98	359.05	9454.52
	18200.00	91.32	354.35	9015.38	9457.81	9457.20	-157.32	3.16	428829.13	575629.08	N 32 10 43.97	W 104 13 20.98	359.05	9458.51
	18291.00	88.49	354.88	9015.53	9548.43	9547.79	-165.86	3.16	428919.71	575620.55	N 32 10 44.87	W 104 13 21.06	359.00	9549.23
	18300.00	88.34	354.86	9015.78	9557.40	9556.75	-166.66	1.68	428928.67	575619.74	N 32 10 44.95	W 104 13 21.09	359.00	9558.20
	18384.00	86.94	354.70	9019.24	9641.01	9640.33	-174.30	1.68	429012.24	575612.11	N 32 10 45.78	W 104 13 21.18	358.96	9641.90
	18400.00	86.66	354.92	9020.14	9656.93	9656.24	-175.74	2.22	429028.15	575610.67	N 32 10 45.94	W 104 13 21.20	358.96	9657.84
	18478.00	85.32	356.02	9025.59	9734.52	9733.80	-181.88	2.22	429105.71	575604.52	N 32 10 46.71	W 104 13 21.27	358.93	9735.50
	18500.00	85.32	355.92	9027.38	9756.39	9755.67	-183.42	0.46	429127.58	575602.98	N 32 10 46.92	W 104 13 21.28	358.92	9757.40
	18577.00	85.32	355.56	9033.66	9832.95	9832.20	-189.13	0.46	429204.10	575597.28	N 32 10 47.68	W 104 13 21.35	358.90	9834.02
	18600.00	85.32	355.56	9035.54	9855.81	9855.06	-190.90	0.00	429226.96	575595.51	N 32 10 47.91	W 104 13 21.37	358.89	9856.91
Final Survey	18616.00	85.32	355.56	9036.85	9871.72	9870.96	-192.14	0.00	429242.85	575594.27	N 32 10 48.06	W 104 13 21.38	358.88	9872.83
TD, PTB [330° FNL, 434° FEL]														

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	26.000	1/98.425	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Original / Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft (Surcon)
	1	26.000	26.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS-Depth Only	Original / Final Survey - Cimarex Scoter 6-31 Federal Com 44H MWD 0ft-18616ft (Surcon)
	1	26.000	413.000	Act Stns	17.500	13.375	NAL_MWD_IFR1+MS	Original / Final Survey - Cimarex Scoter 6-31 Federal Com 44H
	1	413.000	2070.000	Act Stns	12.250	9.625	NAL_MWD_IFR1+MS	Original / Final Survey - Cimarex Scoter 6-31 Federal Com 44H
	1	2070.000	9200.000	Act Stns	8.750	7.000	NAL_MWD_IFR1+MS	Original / Final Survey - Cimarex Scoter 6-31 Federal Com 44H
	1	9200.000	18616.000	Act Stns	6.000	4.500	NAL_MWD_IFR1+MS	Original / Final Survey - Cimarex Scoter 6-31 Federal Com 44H

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
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District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 92364

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 92364
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 92364

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 92364
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	4/6/2022