

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 17 2008

OCD-ARTESIA

CONFIDENTIALITY REQUESTED
WELL COMPLETION OR RECOMPLETION REPORT AND LOGFORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other								5. Lease Serial No. NM-19423			
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr Other _____								6. If Indian, Allottee or Tribe Name			
2 Name of Operator Cimarex Energy Co. of Colorado								7. Unit or CA Agreement Name and No.			
3. Address PO Box 140907; Irving, TX 75014						3a. Phone No. (include area code) 972-443-6489		8. Lease Name and Well No. White City 14 Federal 4			
4 Location of Well (Report Location clearly and in accordance with Federal requirements)* At surface 330' FSL & 2280' FEL At top prod. interval reported below 345' FSL & 2279' FEL At total depth 2301' FSL & 2255' FEL								9. API Well No. 30-015-36336			
14. Date Spudded 06.27.08								15. Date T.D. Reached 08.01.08		16. Date Completed 09.19.08 ☐ D & A ☒ Ready to Prod.	
18 Total Depth: MD 4,854' TVD 3008				19. Plug Back TD: MD 4,854' TVD 3008				20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) HRLA-HNGSCNL-CFLGR-Sonic								22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey ☐ No ☒ Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)											
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled		
12 1/4"	8 5/8" J-55	24	0'	442'		325 sx class C		0'			
7 7/8"	5 1/2" J-55	17	0'	3147'		730 sx POZ/class C		TOC 70'			
						1" Top Job 200 sx C		0'			
4 3/4"	2-7/8" P110	6.4	2,632'	4,685'		no cement					
24. Tubing Record											
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)			
2 7/8"	2665'	2599'	5 1/2" X 2 7/8"								
25 Producing Intervals											
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status			
A) Cherry Canyon		2,853'	3,008'	no perms...iso-pack strata-port							
B)											
C)											
D)											
27. Acid, Fracture, Treatment, Cement Squeeze, etc.											
Depth Interval		Amount and Type of Material									
		please see attachment for 5-stage frac job details									
28. Production - Interval A -											
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
08.29.08	09.24.08	24	→	61	100	39	43.1		Pumping oil, flaring gas		
Choke Size	Tbg Press Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status			
24-64	SI 170	0	→	61	100	39	1,639	Producing			
28. Production - Interval B -											
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method		
			→								
Choke Size	Tbg Press Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status			
	SI		→								

* (See instructions and spaces for additional data on page 2)

Accepted for record - NMOCD

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Flare, waiting for Hunter gas gathering tie in approval.

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				Top Salt	1,012'
				Base Salt	1,681'
				Delaware	1,886'
				Cherry Canyon	2,853'

32. Additional remarks (include plugging procedure):

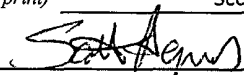
Tried to produce as open hole but had problem, SI well and ran peak liner assembly and began production.
Rod Pump: 25-150 RWBC (HUR) 24 pump.

Installed

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other: PEAK Systems Drawing, Frac Job, Deviation/well path

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Scott Haynes Title Regulatory Analyst
 Signature  Date November 14, 2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

White City 14 Federal 4

14-25S-26E

Eddy County, NM

Depth Interval	Amount and Type of Material Used
4523'-4854'	6359 gals Lightning 2000 x-linker pad, 0.5 to 1 ppg 16/30# white sand in lightning 2000 gel, flush with 2513 gals 20# linear gel. 7527# 16/30 white sand pumped.
4163'-4523'	6432 gals Lightning 2000 x-linker pad, 0.5 to 1 ppg 16/30# white sand in lightning 2000 gel, flush with 2303 gals 20# linear gel. 7527# 16/30 white sand pumped.
3814'-4163'	6567 gals Lightning 2000 x-linker pad, 0.5 to 1 ppg 16/30# white sand in lightning 2000 gel, flush with 2453 gals 20# linear gel. 7173# 16/30 white sand pumped.
3500'-3814'	6297 gals Lightning 2000 x-linker pad, 0.5 to 1 ppg 16/30# white sand in lightning 2000 gel, flush with 1037 gals 20# linear gel. 5677# 16/30 white sand pumped.
3147'-3500'	4697 gals Lightning 2000 x-linker pad, 0.5 to 1 ppg 16/30# white sand in lightning 2000 gel, flush with 1789 gals 20# linear gel. 2948# 16/30 white sand pumped.

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, 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 and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36336	Pool Code	Pool Name Sulphate; Delaware
Property Code	Property Name WHITE CITY "14" FEDERAL	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3279'

Surface Location

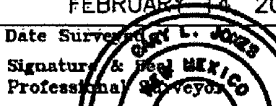
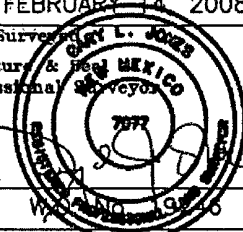
UL or lot No. O	Section 14	Township 25 S	Range 26 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 2280	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. J	Section 14	Township 25 S	Range 26 E	Lot Idn	Feet from the 2301	North/South line SOUTH	Feet from the 2255	East/West line EAST	County EDDY
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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		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 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.  11-07-08 Signature Date Scott Haynes Printed Name
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. FEBRUARY 14, 2008 Date Surveyed  Gary L. Jones Signature Professional Surveyor  Certificate No. Gary L. Jones 7977 Basin Surveys		

WELL NAME AND NUMBER White City 14 Federal # 4

LOCATION Section 14, T 25S, R 26E, 330 FSL, 2280 FEL, Eddy County

OPERATOR Cimarex Energy

DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1 @ 218'	2 @ 3182'	
3/4 @ 413'	2 @ 3262'	
1 @ 597'	2 @ 3294'	
1 @ 988'	2-1/4 @ 3484'	
2 @ 1210'	2 @ 3670'	
4 @ 1506'		
3-1/2 @ 1601'		
3-1/4 @ 1622'		
3-1/2 @ 1727'		
3-1/4 @ 1790'		
1-3/4 @ 1817'		
2 @ 1880'		
1 @ 2169'		
1 @ 2422'		
3/4 @ 2573'		
1/2 @ 2802'		

Drilling Contractor- UNITED DRILLING, INC.

By: _____

Luisa Garcia
(Luisa Garcia)

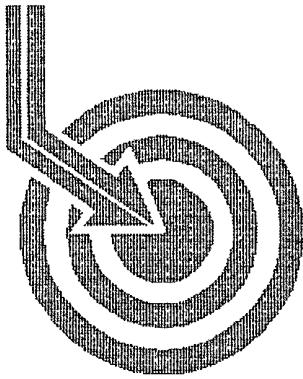
Title: Assistant Office Manager

Subscribed and sworn to before me this 5 day of August, 2008

Deane A. Aho
Notary Public
Chaves, NM
County State

My Commission Expires:

10-8-08



Scientific Drilling

CIMAREX ENERGY

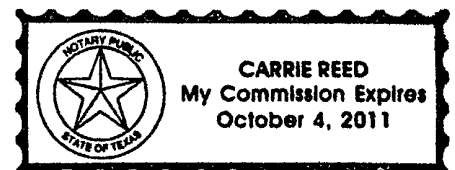
Field: Sulphate
Site: Eddy County, NM
Well: White City 14 Federal #4
Wellpath: VH - Job #32K0708535
Survey: 07/12/08

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Sharon.....Company Representative

Notorized this date 11th of August, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CIMAREX ENERGY	Date: 08/10/2008	Time: 16:11:07	Page: 1
Field: Sulphate	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: White City 14 Federal #4	Section (VS) Reference:	Well (0.00N,0.00E,359.68Azi)	
Wellpath: VH - Job #32K0708535	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 07/12/08	Start Date: 07/12/2008
Company: KSRG 0'-2692'	
Tool: Scientific Drilling Internatio	Engineer: Guebara/Williams w/Rotary
Keeper: Keeper Gyro	Tied-to: From Surface

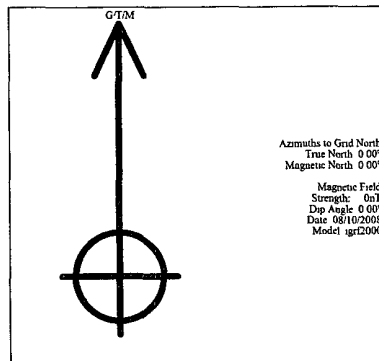
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.28	151.90	100.00	-0.22	-0.22	0.12	0.28	0.24	151.90
200.00	0.08	246.10	200.00	-0.46	-0.46	0.17	0.30	0.49	160.09
300.00	0.27	280.87	300.00	-0.44	-0.44	-0.13	0.21	0.46	196.21
400.00	0.15	251.61	400.00	-0.44	-0.44	-0.48	0.16	0.65	227.75
500.00	0.05	288.85	500.00	-0.46	-0.47	-0.65	0.11	0.80	234.29
600.00	0.09	53.72	600.00	-0.40	-0.41	-0.63	0.13	0.75	237.07
700.00	0.20	63.68	700.00	-0.28	-0.28	-0.41	0.11	0.50	235.28
800.00	0.21	81.36	800.00	-0.18	-0.18	-0.07	0.06	0.19	201.64
900.00	0.28	107.73	900.00	-0.23	-0.22	0.34	0.13	0.41	123.22
1000.00	0.42	104.54	999.99	-0.40	-0.39	0.93	0.14	1.01	112.80
1100.00	1.47	83.63	1099.98	-0.36	-0.34	2.56	1.09	2.58	97.58
1200.00	1.82	87.93	1199.94	-0.17	-0.14	5.42	0.37	5.42	91.49
1300.00	2.54	83.76	1299.86	0.11	0.16	9.21	0.74	9.21	89.02
1400.00	3.23	82.43	1399.74	0.69	0.77	14.21	0.69	14.23	86.90
1500.00	3.39	86.99	1499.57	1.18	1.30	19.95	0.31	19.99	86.29
1600.00	3.52	82.59	1599.39	1.70	1.85	25.95	0.30	26.01	85.93
1700.00	3.41	84.61	1699.21	2.34	2.52	31.95	0.16	32.05	85.49
1800.00	1.96	92.57	1799.09	2.52	2.72	36.62	1.49	36.73	85.75
1900.00	1.19	97.17	1899.06	2.30	2.52	39.36	0.78	39.44	86.34
2000.00	1.00	115.40	1999.04	1.78	2.01	41.18	0.39	41.23	87.20
2100.00	0.98	110.77	2099.02	1.10	1.34	42.77	0.08	42.79	88.21
2200.00	0.72	103.26	2199.01	0.64	0.89	44.18	0.28	44.19	88.85
2300.00	0.80	115.11	2299.00	0.20	0.45	45.42	0.18	45.43	89.43
2400.00	0.74	101.74	2398.99	-0.24	0.02	46.69	0.19	46.69	89.97
2500.00	0.56	123.06	2498.99	-0.64	-0.38	47.73	0.30	47.73	90.45
2600.00	0.56	99.84	2598.98	-1.00	-0.73	48.62	0.23	48.63	90.86
2692.00	0.75	137.26	2690.98	-1.52	-1.25	49.47	0.50	49.49	91.44

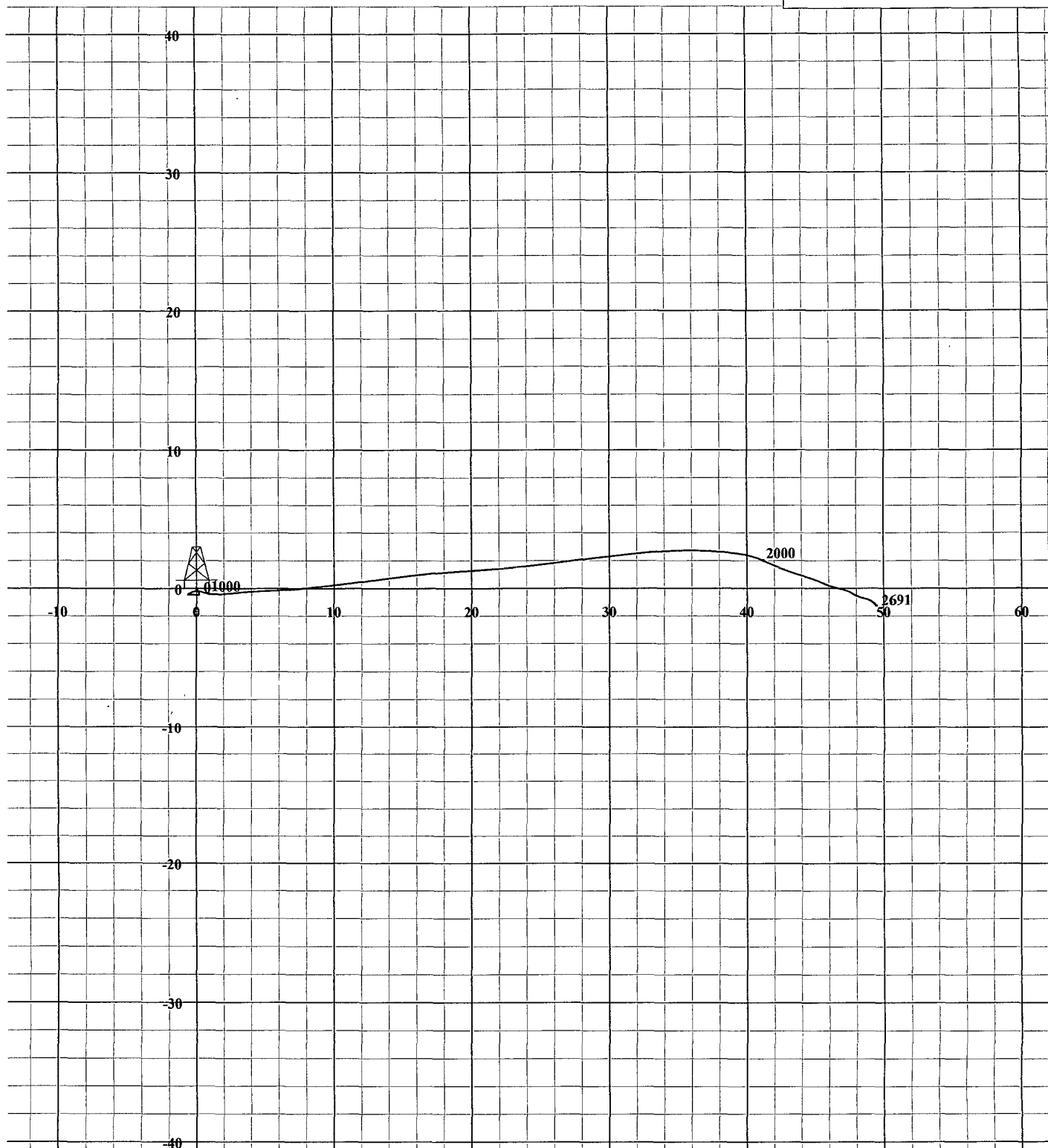


Scientific
Drilling

Field: Sulphate
Site: Eddy County, NM
Well: White City 14 Federal #4
Wellpath: VH - Job #32K0708535
Survey: 07/12/08



South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]



Sperry Drilling Services

DIRECTIONAL SURVEY REPORT

CIMAREX
WC"14" FED
WHITE CITY
EDDY TX
USA
MO-MJ-000600901

Measured Depth (feet)	Inclination (degrees)	Direction (degrees)	Vertical Depth (feet)	Latitude (feet)	Departure (feet)	Vertical Section (feet)	Dogleg (deg/100ft)
2692.00	0.75	137.26	2690.98	1.25 S	49.47 E	-1.53	TIE-IN
2719.00	6.59	339.18	2717.93	0.07 N	49.04 E	-0.20	27.02
2750.00	9.87	5.67	2748.61	4.38 N	48.67 E	4.11	15.92
2782.00	15.34	8.98	2779.83	11.30 N	49.60 E	11.02	17.22
2813.00	22.23	0.98	2809.17	21.22 N	50.34 E	20.94	23.69
2845.00	29.54	355.68	2837.94	35.16 N	49.85 E	34.88	23.92
2877.00	36.13	351.15	2864.82	52.37 N	47.80 E	52.10	21.99
2908.00	41.92	346.32	2888.89	71.48 N	43.94 E	71.24	21.08
2938.00	46.37	342.35	2910.42	91.58 N	38.27 E	91.37	17.46
2970.00	52.60	342.26	2931.20	114.75 N	30.88 E	114.57	19.47
3001.00	59.39	340.98	2948.52	139.12 N	22.78 E	138.99	22.17
3032.00	66.42	341.67	2962.63	165.25 N	13.95 E	165.17	22.75
3064.00	72.94	342.68	2973.74	193.80 N	4.77 E	193.77	20.58
3091.00	78.44	344.40	2980.41	218.88 N	2.63 W	218.89	21.30
3159.00	84.51	346.73	2990.49	283.98 N	19.37 W	284.08	9.54
3191.00	85.25	350.01	2993.35	315.19 N	25.80 W	315.33	10.46
3224.00	86.36	354.23	2995.76	347.78 N	30.30 W	347.95	13.20
3255.00	87.60	358.40	2997.40	378.67 N	32.29 W	378.84	13.99
3287.00	88.68	2.59	2998.44	410.64 N	32.02 W	410.82	13.53
3319.00	91.66	5.87	2998.34	442.55 N	29.66 W	442.71	13.85
3350.00	90.99	8.56	2997.63	473.29 N	25.76 W	473.43	8.95
3383.00	89.63	10.39	2997.45	505.84 N	20.33 W	505.94	6.91
3413.00	89.45	9.76	2997.69	535.37 N	15.08 W	535.45	2.18
3445.00	91.26	9.26	2997.49	566.93 N	9.80 W	566.98	5.89
3477.00	92.19	9.37	2996.53	598.50 N	4.62 W	598.51	2.91
3507.00	93.33	9.64	2995.09	628.05 N	0.33 E	628.04	3.91
3539.00	91.26	10.80	2993.80	659.51 N	6.00 E	659.47	7.39
3570.00	90.15	10.93	2993.42	689.96 N	11.84 E	689.88	3.61
3601.00	88.92	10.54	2993.67	720.41 N	17.62 E	720.30	4.17
3632.00	89.54	9.88	2994.09	750.92 N	23.11 E	750.78	2.92
3664.00	90.43	7.86	2994.10	782.53 N	28.04 E	782.37	6.90
3696.00	90.06	6.26	2993.96	814.29 N	31.98 E	814.10	5.12
3727.00	91.20	5.29	2993.62	845.13 N	35.09 E	844.92	4.84
3758.00	90.00	4.70	2993.29	876.01 N	37.79 E	875.78	4.31
3790.00	88.77	3.91	2993.64	907.92 N	40.20 E	907.68	4.58
3822.00	88.34	3.23	2994.44	939.84 N	42.19 E	939.59	2.52
3853.00	88.83	1.47	2995.21	970.81 N	43.47 E	970.55	5.90
3885.00	89.45	1.08	2995.69	1002.79 N	44.18 E	1002.53	2.29
3917.00	89.88	1.24	2995.88	1034.79 N	44.82 E	1034.52	1.44
3949.00	88.58	1.57	2996.31	1066.77 N	45.61 E	1066.50	4.18
3980.00	88.80	0.91	2997.02	1097.76 N	46.28 E	1097.48	2.25
4012.00	89.97	1.00	2997.37	1129.75 N	46.81 E	1129.47	3.67
4044.00	91.23	0.52	2997.03	1161.75 N	47.24 E	1161.46	4.23
4076.00	92.22	0.72	2996.07	1193.73 N	47.58 E	1193.45	3.15
4105.00	92.93	0.82	2994.76	1222.70 N	47.97 E	1222.41	2.48
4138.00	91.48	359.91	2993.49	1255.67 N	48.18 E	1255.38	5.19
4169.00	90.12	359.70	2993.06	1286.67 N	48.08 E	1286.38	4.43
4201.00	88.49	359.41	2993.45	1318.66 N	47.83 E	1318.38	5.17
4232.00	87.26	358.84	2994.60	1349.64 N	47.35 E	1349.35	4.40
4264.00	86.98	358.45	2996.21	1381.59 N	46.60 E	1381.31	1.49
4296.00	86.70	359.11	2997.97	1413.53 N	45.91 E	1413.25	2.24
4327.00	86.05	357.73	2999.93	1444.46 N	45.06 E	1444.18	4.93
4359.00	86.89	357.30	3001.90	1476.37 N	43.68 E	1476.10	2.92
4391.00	87.63	357.06	3003.43	1508.29 N	42.10 E	1508.03	2.44
4422.00	87.84	357.07	3004.66	1539.23 N	40.52 E	1538.98	0.70

4453.00	88.09	356.87	3005.76	1570.16 N	38.88 E	1569.92	1.01
4484.00	88.03	356.88	3006.81	1601.10 N	37.19 E	1600.87	0.20
4516.00	88.15	357.07	3007.88	1633.04 N	35.50 E	1632.81	0.70
4547.00	88.34	357.57	3008.83	1663.99 N	34.05 E	1663.77	1.72
4579.00	89.88	357.48	3009.32	1695.95 N	32.67 E	1695.74	4.82
4610.00	90.62	358.09	3009.19	1726.93 N	31.47 E	1726.73	3.09
4641.00	89.78	358.16	3009.08	1757.91 N	30.46 E	1757.71	2.70
4673.00	90.55	358.70	3008.99	1789.90 N	29.58 E	1789.71	2.93
4704.00	90.37	358.65	3008.74	1820.89 N	28.86 E	1820.70	0.62
4736.00	89.48	358.41	3008.78	1852.88 N	28.04 E	1852.69	2.89
4768.00	89.97	358.39	3008.94	1884.87 N	27.15 E	1884.69	1.54
4800.00	90.18	358.55	3008.89	1916.85 N	26.29 E	1916.68	0.83
4817.00	90.46	358.31	3008.80	1933.85 N	25.83 E	1933.67	2.13
4854.00	90.46	358.31	3008.50	1970.83 N	24.74 E	1970.66	0.01

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 359.68 DEGREES (GRID)
A TOTAL CORRECTION OF 8.11 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT (CLOSURE) AT 4854.00 FEET
IS 1970.99 FEET ALONG 0.72 DEGREES (GRID)

SURVEYS CALCULATED USING LONG COLLAR METHOD. TIE ON SURVEY AT SURFACE PROVIDED BY RELIABLE SURVEY CORP. SURVEYS FROM 0' MD TO 2692' MD PROVIDED BY SCIENTIFIC. SURVEYS FROM 2692' MD TO 4854' MD PROJECTED TO TD AT 4854' MD SPERRY-SUN ENGINEERS: C.AUGUILLARD, M.HALE



WINDOW @ ?? FT

Top of Packer: 2.631'



DOWN HOLE WELL PROFILE

WELL NAME	White City Federal 14 #004	DATE	9/12/08
SUPERVISOR	Steve Cockrum	TOOL HAND	Ray Lollar
PHONE #		PHONE #	432-425-2193
PIC #	Integrity #104	FIELD TICKET #	11403

ELEVATIONS

KB ELEV	GL ELEV	KB TO THF	KB TO SCF	RIG KBD	PBTD
CASING / OPEN HOLE LAYOUT	OD (IN)		LANDED DEPTH	19	TOP OF (FTKB)
CASING DESCRIPTION	5 1/2		3,147'	17	
WINDOW DESCRIPTION					
OPEN HOLE DESCRIPTION	4 3/4		3,147'-4,680'	JUNCTION @	

DESCRIPTION

STEERING DIRECTIONS

DOWNHOLE DESCRIPTION FROM BOTTOM UP (Tubing String)

BOTTOM @	DESCRIPTION	LENGTH	ID	OD
4685.00	Peak Pump Out Plug	0.80	0.75	3.75
4684.20	2 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	62.69	2.44	2.88
4621.51	5 1/2 x 2 7/8 Peak Rotational Centralizer with 2 7/8" 8rd threads	0.59	2.50	4.50
4620.92	5 1/2 x 2 7/8 Peak Extreme Service Hydro-Pak Anchor with 2 7/8" 8rd threads	3.94	2.50	4.50
4616.98	3 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	92.76	2.44	3.88
4524.22	5 1/2 x 2 7/8 Peak Rotational Centralizer with 2 7/8" 8rd threads	0.59	2.50	4.50
4523.63	5 1/2 x 2 7/8" Peak Extreme Service 10K Isolation Packer with 10K HPHT Elements and	4.43	2.50	4.50
4519.20	6 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	197.78	2.44	3.88
4321.42	Peak Stack Port Frack Sleeve with 1 1/2" Seat, 2 7/8 8rd Threads (1 1/2" Frac Ball to a	2.21	1.31	4.00
4319.21	5 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	155.61	2.44	3.88
4163.60	5 1/2 x 2 7/8 Peak Rotational Centralizer with 2 7/8" 8rd threads	0.59	2.50	4.50
4163.01	5 1/2 x 2 7/8" Peak Extreme Service 10K Isolation Packer with 10K HPHT Elements and	4.43	2.50	4.50
4158.58	5 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	155.81	2.44	2.88
4002.77	Peak Stack Port Frack Sleeve with 1 1/2" Seat, 2 7/8 8rd Threads (1 1/2" Frac Ball to b	2.21	1.56	4.00
4000.56	6 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	185.13	2.44	2.88
3815.43	5 1/2 x 2 7/8 Peak Rotational Centralizer with 2 7/8" 8rd threads	0.59	2.50	4.50
3814.84	5 1/2 x 2 7/8" Peak Extreme Service 10K Isolation Packer with 10K HPHT Elements and	4.43	2.50	4.50
3810.41	5 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	149.89	2.44	3.88
3660.52	Peak Stack Port Frack Sleeve with 1 3/4" Seat, 2 7/8 8rd Threads (2" Frac Ball to c	2.21	1.81	4.00
3658.31	5 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	156.80	2.44	3.88
3501.51	5 1/2 x 2 7/8 Peak Rotational Centralizer with 2 7/8" 8rd threads	0.59	2.50	4.50
3500.92	5 1/2 x 2 7/8" Peak Extreme Service 10K Isolation Packer with 10K HPHT Elements and	4.43	2.50	4.50
3496.49	6 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	192.35	2.44	3.88
3304.14	Peak Stack Port Frack Sleeve with 2" Seat, 2 7/8 8rd Threads (2 1/2" Frac Ball to c	2.21	2.06	4.00
3301.93	2 Joints 2 7/8", 6.4#, P-110 Liner w 2 7/8 8rd threads	63.93	2.44	2.88
3238.00	2 7/8 8rd pin x 2 7/8 Ultra FX box	0.85	2.50	3.00
3237.15	19 Joints 2 7/8, 6.4#, P-110 Liner with 2 7/8" Ultra FX Threads	596.00	2.44	2.88
2641.15	2 7/8 Ultra FX pin v 2 7/8 8rd box	1.00	2.50	3.75
2640.15	Peak Extreme 10K Service Swivel with 2 7/8 8rd Threads	1.10	2.50	4.00
2639.05	Peak AS-1, 5K, 5 1/2" 17# Casing, Retrievable Production Packer	7.20	2.50	4.63
2631.85	Peak On/Off Tool with HPHT seals 2 7/8 8rd Threads Inverted)	2.58	2.50	4.25
2629.27	On/Off Tool re-entry tool with 2 7/8" 8rd threads	0.85	2.50	3.25
2628.42	2 7/8 8rd pin x 2 7/8" AOH box	0.50	2.25	4.25
2627.92	84 Joints 2 7/8" drill pipe with 2 7/8" AOH Threads	2647.00	2.25	2.88
-19.08	Stick-Up	0.00	0.00	0.00

WEIGHT OF TUBING STRING
PUSH/PULL TEST
LINER STRING WEIGHT

TOTAL STRING LENGTH
STICK-UP OFF RIG FLOOR
TUBING BOTTOM

*** CONFIDENTIAL ***

NOT TO BE DISCLOSED OUTSIDE

****Cimarex Energy Company ****TOTAL MEASURED DEPTH @
ET

2"ID strada-Port: 3,304"

Iso-Pak: 3,500'

1 3/4" ID Stada-Port: 3.660"

Iso-Pak 3.814'

1 1/2"ID Stada-Port 4.002'

Iso-Pak: 4.163'

1 1/4" ID Stada-Port. 4,321'

Iso-Pak, 4.523'

Anchor: 4,620'

Pump Out Plug. 4,685'