

Submit 1 Copy To Appropriate District
Office

District I - (575) 393-6161

1625 N. French Dr., Hobbs, NM 88240

District II - (575) 748-1283

811 S. First St., Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Rd., Aztec, NM 87410

District IV - (505) 476-3460

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

Revised July 18, 2013

RECEIVED
MAR 03 2020

OIL CONSERVATION DIVISION
1000 South St. Francis Dr.
Santa Fe, NM 87505
EMNRD-OCDA-ARTESIA

WELL API NO.
30-015-45550

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.
E0-0701-0009

7. Lease Name or Unit Agreement Name
Parkway 15-14 North State Com

8. Well Number 1H

9. OGRID Number
215099

10. Pool name or Wildcat
Turkey Track; Bone Spring (60660)

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

2. Name of Operator
Cimarex Energy Co.

3. Address of Operator
600 N. Marienfeld St., Suite 600 Midland, TX 79701

4. Well Location
Unit Letter D : 1210 feet from the North line and 390 feet from the West line
Section 15 Township 19S Range 29E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3345' GR

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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

Cimarex would like to make the following changes:

BHL: 952' FNL & 100' FEL

Casing Design: Set Surface csg @ 260'
Set Intermediate Csg @ 3110'.

Please see the attached updated C-102, drilling plan and directional surveys.

Spud Date:

Rig Release Date:

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

SIGNATURE

TITLE Regulatory Analyst

DATE 03/02/2020

Type or print name Fatima Vasquez

E-mail address: fvasquez@cimarex.com

PHONE: (432) 620-1933

For State Use Only

APPROVED BY: *Raymond R. Rodary*

TITLE

Geologist

DATE 3-18-20

Conditions of Approval (if any):

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

RECEIVED

MAR 03 2020

EMNRD-OCD ARTESIA

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 30-015-45550	² Pool Code 60660	³ Pool Name Turkey Track; Bone Spring
⁴ Property Code 323006	⁵ Property Name PARKWAY 15-14 NORTH STATE COM	⁶ Well Number 1H
⁷ OGRID No. 215099	⁸ Operator Name CIMAREX ENERGY CO.	⁹ Elevation 3345.0'

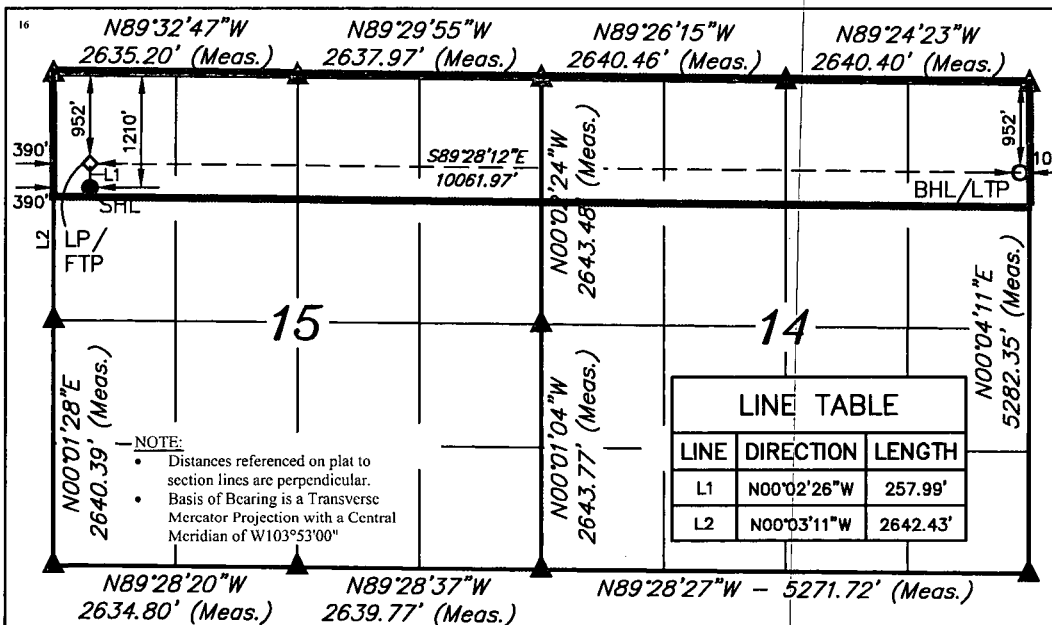
¹⁰ Surface Location

UL or lot no. D	Section 15	Township 19S	Range 29E	Lot Idn	Feet from the 1210	North/South line NORTH	Feet from the 390	East/West line WEST	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 14	Township 19S	Range 29E	Lot Idn	Feet from the 952	North/South line NORTH	Feet from the 100	East/West line EAST	County EDDY
¹² Dedicated Acres 320	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.



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: *[Signature]* Date: 02/28/2020

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.

November 21, 2018

Date of Survey
Signature and Seal of Professional Surveyor:



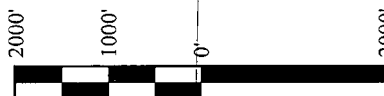
Certificate Number:

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°39'53.01" (32.664725°)
LONGITUDE = 104°04'11.80" (104.069943°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°39'52.59" (32.664608°)
LONGITUDE = 104°04'09.97" (104.069436°)
STATE PLANE NAD 83 (N.M. EAST)
N: 605658.69' E: 622390.92'
STATE PLANE NAD 27 (N.M. EAST)
N: 605596.35' E: 581211.21'

NAD 83 (LP/FTP)
LATITUDE = 32°39'55.56" (32.665434°)
LONGITUDE = 104°04'11.80" (104.069945°)
NAD 27 (LP/FTP)
LATITUDE = 32°39'55.14" (32.665317°)
LONGITUDE = 104°04'09.98" (104.069438°)
STATE PLANE NAD 83 (N.M. EAST)
N: 605916.63' E: 622389.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 605854.28' E: 581209.94'

NAD 83 (BHL/LTP)
LATITUDE = 32°39'54.80" (32.665223°)
LONGITUDE = 104°02'14.12" (104.037256°)
NAD 27 (BHL/LTP)
LATITUDE = 32°39'54.38" (32.665105°)
LONGITUDE = 104°02'12.30" (104.036750°)
STATE PLANE NAD 83 (N.M. EAST)
N: 605866.20' E: 632449.30'
STATE PLANE NAD 27 (N.M. EAST)
N: 605803.78' E: 591269.60'

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



SCALE

DRAWN BY: C.M.T. 11-30-18

REV: 2 S.T.O. 02-27-20 (WELLBORE CHANGE)

RW-3-18-20

1. Geological Formations

TVD of target 9,090

Pilot Hole TD N/A

MD at TD 18,834

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	300	N/A	
Top Salt	340	N/A	
Yates	1200	N/A	
Queen	2140	N/A	
Capitan	3095	N/A	
Delware	3300	N/A	
Bone Spring	6950	Hydrocarbons	
Bone Spring Target	8840	Hydrocarbons	
Wolfcamp	9030	Hydrocarbons	

2. Casing Program

Hole Size	Casing Depth From	Casing Depth To	Setting Depth TVD	Casing Size	Weight (lb/ft)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
17 1/2	0	260	260	13-3/8"	48.00	H-40/J-55 Hybrid	ST&C	6.36	14.88	25.80
12 1/4	0	3110	3110	9-5/8"	36.00	J-55	ST&C	1.25	2.18	3.52
8 3/4	0	8376	8376	7"	29.00	L-80	BT&C	1.75	2.04	4.50
8 3/4	8398	18708	8840	5-1/2"	17.00	L-80	BT&C	1.49	1.83	50.33
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

TVD was used on all calculations.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	N
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary.	N
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N
Is 2nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N
Is AC Report included?	Y

3. Cementing Program

Casing	# Sks	Wt. lb/gal	Yld ft ³ /sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surface	168	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Intermediate	610	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	182	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	295	10.50	3.45	22.18	N/A	Lead: NeoCem
	1477	14.20	1.30	5.86	14:30	Tail: 50:50 (Poz:H) + Salt + Bentonite + Fluid Loss + Dispersant + SMS

Casing String	TOC	% Excess
Surface	0	25
Intermediate	0	47
Production	3080	25

Cimarex request the ability to perform casing integrity tests after plug bump of cement job.

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
BOP installed and tested before drilling which hole?	Size	Min. Required WP	Type		Tested To
12 1/4	13 5/8	2M	Annular	X	50% of working pressure
			Blind Ram		2M
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.				
X	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.				
N	Are anchors required by manufacturer?				

5. Mud Program

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' to 260'	FW Spud Mud	8.10 - 8.60	30-32	N/C
260' to 3110'	Brine Water	9.50 - 10.00	30-32	N/C
3110' to 18708'	Cut Brine or OBM	8.70 - 9.20	27-70	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test?
	Coring?

Additional Logs Planned	Interval
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7. Drilling Conditions

Condition	
BH Pressure at deepest TVD	4229 psi
Abnormal Temperature	No

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X	H ₂ S is present
X	H ₂ S plan is attached

8. Other Facets of Operation**9. Wellhead**

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 5/8" BOP/BOPE system with a minimum working pressure of 3000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 3000 psi test. Annular will be tested to 50% of working pressure. The pressure test will be repeated at least every 30 days, as per Onshore Order No. 2.

The multi-bowl wellhead will be installed by vendor's representative. A copy of the installation instructions has been sent to the BLM field office.

The wellhead will be installed by a third-party welder while being monitored by the wellhead vendor representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 3000 psi.

All casing strings will be tested as per Onshore Order No.2 to atleast 0.22 psi/ft or 1,500 whichever is greater and not to exceed 70% of casing burst.

If well conditions dictate conventional slips will be set and BOPE will be tested to appropriate pressures based on permitted pressure requirements.



Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20 Proposal
Geodetic Report
(Def Plan)



Report Date: February 28, 2020 - 03:40 PM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cimarex Parkway 15-14 North State Com 1H / New Slot
Well: Parkway 15-14 North State Com 1H
Borehole: Parkway 15-14 North State Com 1H
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20
Survey Date: December 05, 2018
Tort / AHD / DDI / ERD Ratio: 115.884 ° / 10534.337 ft / 6.403 / 1.159
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 39' 53.01145", W 104° 4' 11.79505"
Location Grid N/E Y/X: N 605658.690 ftUS, E 622390.920 ftUS
CRS Grid Convergence Angle: 0.1422 °
Grid Scale Factor: 0.99991661
Version / Patch: 2.10.787.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 90.285 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3368.000 ft above MSL
Seabed / Ground Elevation: 3345.000 ft above MSL
Magnetic Declination: 7.214 °
Total Gravity Field Strength: 998.5142mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47914.861 nT
Magnetic Dip Angle: 60.394 °
Declination Date: February 28, 2020
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1422 °
Total Corr Mag North->Grid North: 7.0716 °
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 ° ' ")
SHL [1210' FNL, 390' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Nudge 2°/100' DLS	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Hold Nudge	2330.00	6.60	0.00	2329.27	-0.09	18.99	0.00	2.00	605677.67	622390.92	N 32 39 53.20	W 104 4 11.79
Drop to Vertical 2°/100' DLS	6025.22	6.60	0.00	6000.00	-2.21	443.70	0.00	0.00	606102.36	622390.92	N 32 39 57.40	W 104 4 11.78
Hold Vertical	6355.22	0.00	0.00	6329.27	-2.30	462.69	0.00	2.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78
KOP - Build 12°/100' DLS	8488.57	0.00	0.00	8462.62	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78
Landing Point - Turn 2°/100' DLS	9229.65	88.93	90.29	8940.00	466.25	460.36	468.55	12.00	606119.01	622859.43	N 32 39 57.55	W 104 4 6.30
Hold	9565.34	88.93	97.00	8946.27	801.12	439.05	803.31	2.00	606097.70	623194.16	N 32 39 57.34	W 104 4 2.39
Align to Target 2°/100' DLS	10983.76	88.93	97.00	8972.75	2209.56	266.22	2210.91	0.00	605924.88	624601.64	N 32 39 55.59	W 104 3 45.93
Hold to 4900' VS	11319.46	88.93	90.28	8979.02	2544.43	244.91	2545.68	2.00	605903.57	624936.38	N 32 39 55.37	W 104 3 42.01
Align to Target	13675.44	88.93	90.28	9023.00	4900.00	233.19	4901.22	0.00	605891.86	627291.72	N 32 39 55.19	W 104 3 14.46
Hold to Target	13691.73	89.26	90.29	9023.26	4916.29	233.11	4917.51	2.00	605891.78	627308.01	N 32 39 55.19	W 104 3 14.27

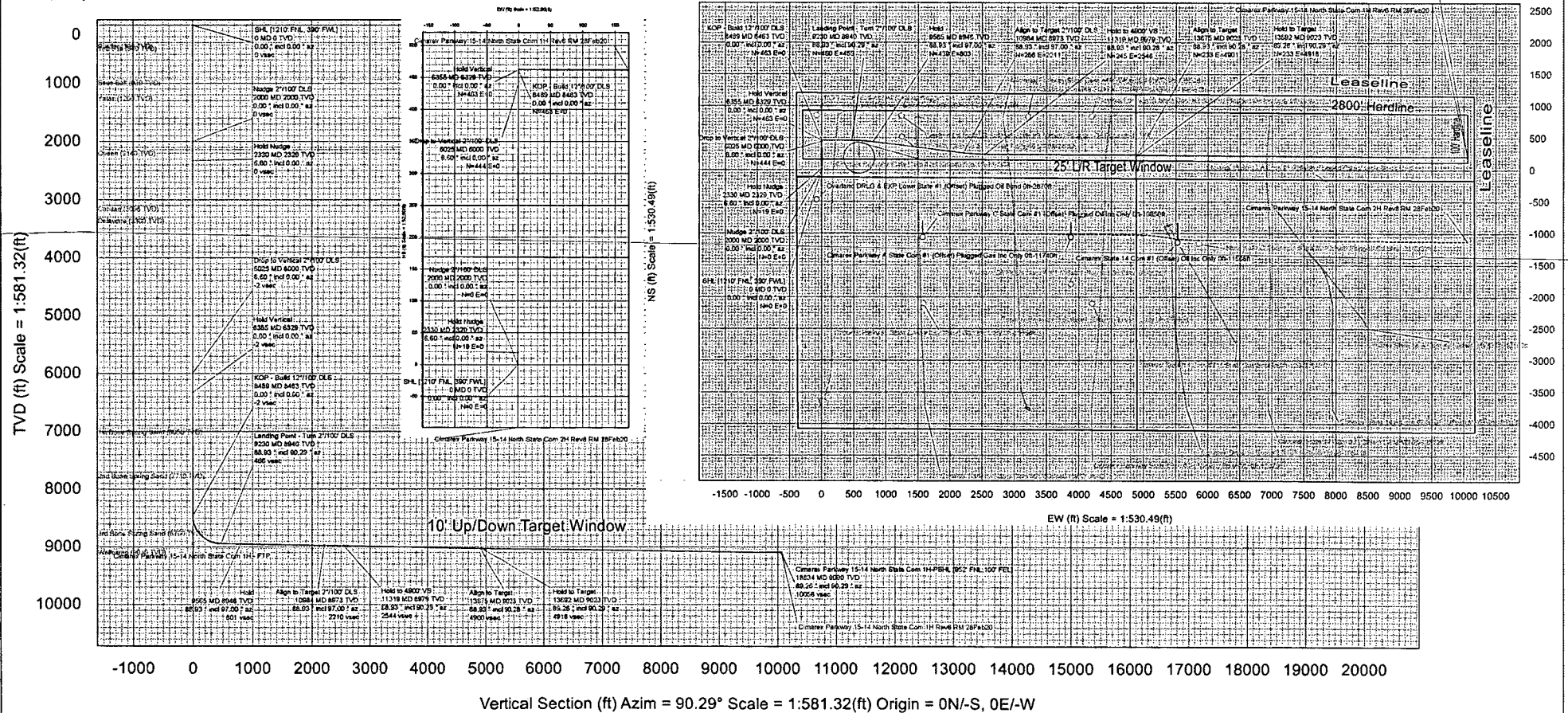
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Cimarex Parkway 15-14 North State Com 1H-PBHL [952' FNL,100' FEL]	18833.96	89.26	90.29	9090.00	10058.08	207.53	10059.24	0.00	605866.20	632449.30	N 32 39 54.80 W 104 2 14.12	

Survey Type: Def Plan

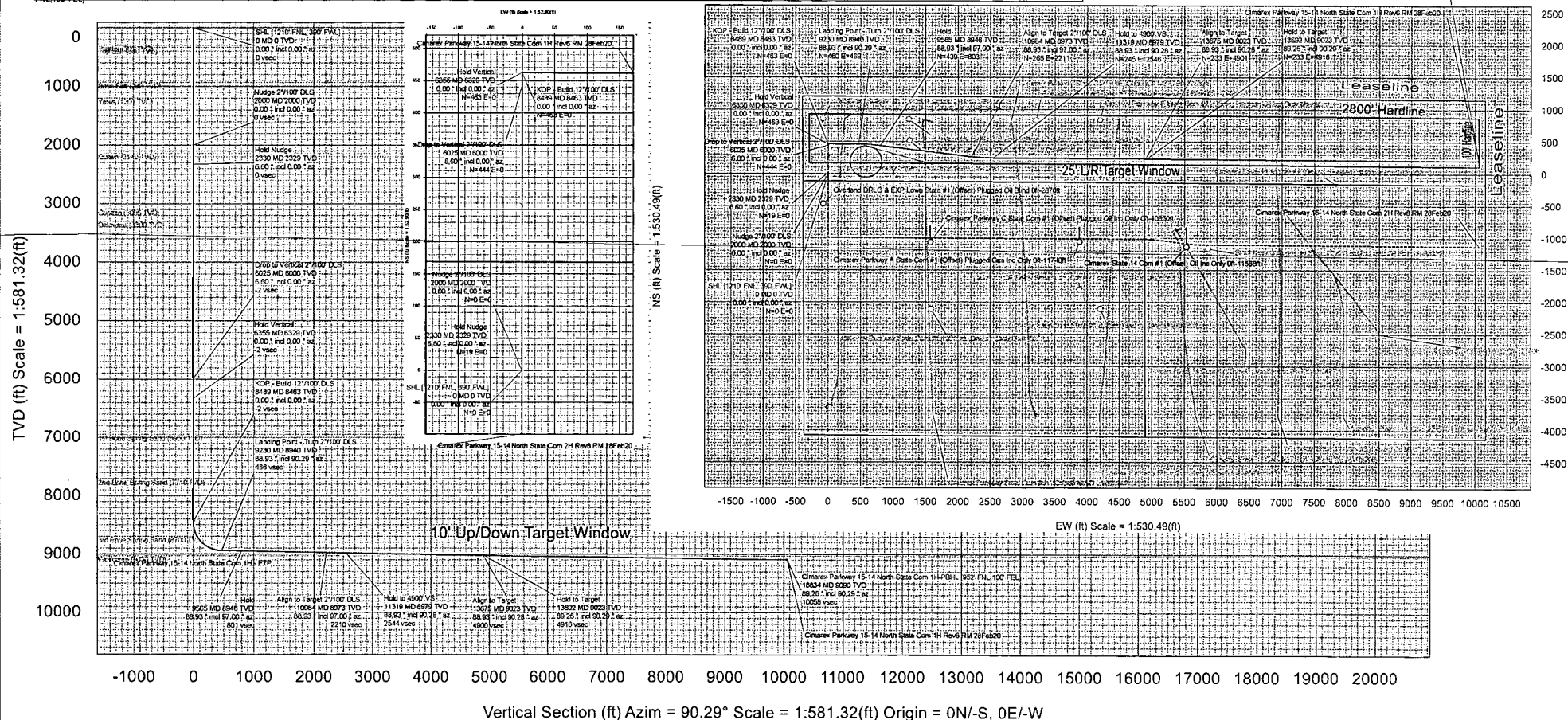
Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS-Depth Only	Parkway 15-14 North State Com 1H / Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20
	1	23.000	18833.959	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS	Parkway 15-14 North State Com 1H / Cimarex Parkway 15-14 North

CONTROLLED	
Project no: Drawing no: C-assy number: Date:	C-assembly Part Number 15-116 NUCLEAR REACTOR CORE TR. REACTOR 217-6029 of 2 23-6-60-2029
1. Chief 2. Chief 3. Chief 4. Chief 5. Chief	
Entry Number _____ for _____	



Cimarex Parkway 15-14 North State Com 1H-PBHL [952' FNL, 100' FEL]
15834 MD 9090 TVI
80.26 * incl 90.29 * a
N=208 E=1005



Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20 Proposal

Geodetic Report

(Def Plan)



Report Date: February 28, 2020 - 03:39 PM
 Client: Cimarex
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Cimarex Parkway 15-14 North State Com 1H / New Slot
 Well: Parkway 15-14 North State Com 1H
 Borehole: Parkway 15-14 North State Com 1H
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20
 Survey Date: December 05, 2018
 Tort / AHD / DDI / ERD Ratio: 115.884 ° / 10534.337 ft / 6.403 / 1.159
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 39' 53.01145", W 104° 4' 11.79505"
 Location Grid N/E Y/X: N 605658.690 ftUS, E 622390.920 ftUS
 CRS Grid Convergence Angle: 0.1422 °
 Grid Scale Factor: 0.99991661
 Version / Patch: 2.10.787.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 90.285 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3368.000 ft above MSL
 Seabed / Ground Elevation: 3345.000 ft above MSL
 Magnetic Declination: 7.214 °
 Total Gravity Field Strength: 998.5142mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 47914.861 nT
 Magnetic Dip Angle: 60.394 °
 Declination Date: February 28, 2020
 Magnetic Declination Model: HDGM 2019
 North Reference: Grid North
 Grid Convergence Used: 0.1422 °
 Total Corr Mag North->Grid North: 7.0716 °

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 ° ' ")
SHL [1210' FNL, 390' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Rustler	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Top Salt	340.00	0.00	0.00	340.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Base Salt	930.00	0.00	0.00	930.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Yates	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
	1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80
Nudge 2°/100' DLS	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	605658.69	622390.92	N 32 39 53.01	W 104 4 11.80

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 ° ' ")
Queen	2100.00	2.00	0.00	2099.98	-0.01	1.75	0.00	2.00	605660.44	622390.92	N 32 39 53.03	W 104 4 11.80
	2140.06	2.80	0.00	2140.00	-0.02	3.42	0.00	2.00	605662.11	622390.92	N 32 39 53.05	W 104 4 11.79
	2200.00	4.00	0.00	2199.84	-0.03	6.98	0.00	2.00	605665.67	622390.92	N 32 39 53.08	W 104 4 11.79
Hold Nudge	2300.00	6.00	0.00	2299.45	-0.08	15.69	0.00	2.00	605674.38	622390.92	N 32 39 53.17	W 104 4 11.79
	2330.00	6.60	0.00	2329.27	-0.09	18.99	0.00	2.00	605677.67	622390.92	N 32 39 53.20	W 104 4 11.79
	2400.00	6.60	0.00	2398.81	-0.13	27.03	0.00	0.00	605685.72	622390.92	N 32 39 53.28	W 104 4 11.79
	2500.00	6.60	0.00	2498.14	-0.19	38.52	0.00	0.00	605697.21	622390.92	N 32 39 53.39	W 104 4 11.79
	2600.00	6.60	0.00	2597.48	-0.25	50.02	0.00	0.00	605708.70	622390.92	N 32 39 53.51	W 104 4 11.79
	2700.00	6.60	0.00	2696.82	-0.31	61.51	0.00	0.00	605720.20	622390.92	N 32 39 53.62	W 104 4 11.79
	2800.00	6.60	0.00	2796.16	-0.36	73.01	0.00	0.00	605731.69	622390.92	N 32 39 53.73	W 104 4 11.79
	2900.00	6.60	0.00	2895.49	-0.42	84.50	0.00	0.00	605743.18	622390.92	N 32 39 53.85	W 104 4 11.79
	3000.00	6.60	0.00	2994.83	-0.48	95.99	0.00	0.00	605754.68	622390.92	N 32 39 53.96	W 104 4 11.79
	3100.00	6.60	0.00	3094.17	-0.53	107.49	0.00	0.00	605766.17	622390.92	N 32 39 54.07	W 104 4 11.79
Capitan	3100.84	6.60	0.00	3095.00	-0.54	107.58	0.00	0.00	605766.26	622390.92	N 32 39 54.08	W 104 4 11.79
	3200.00	6.60	0.00	3193.50	-0.59	118.98	0.00	0.00	605777.66	622390.92	N 32 39 54.19	W 104 4 11.79
	3300.00	6.60	0.00	3292.84	-0.65	130.47	0.00	0.00	605789.15	622390.92	N 32 39 54.30	W 104 4 11.79
Delaware	3307.21	6.60	0.00	3300.00	-0.65	131.30	0.00	0.00	605789.98	622390.92	N 32 39 54.31	W 104 4 11.79
	3400.00	6.60	0.00	3392.18	-0.71	141.97	0.00	0.00	605800.65	622390.92	N 32 39 54.42	W 104 4 11.79
	3500.00	6.60	0.00	3491.52	-0.76	153.46	0.00	0.00	605812.14	622390.92	N 32 39 54.53	W 104 4 11.79
	3600.00	6.60	0.00	3590.85	-0.82	164.96	0.00	0.00	605823.63	622390.92	N 32 39 54.64	W 104 4 11.79
	3700.00	6.60	0.00	3690.19	-0.88	176.45	0.00	0.00	605835.12	622390.92	N 32 39 54.76	W 104 4 11.79
	3800.00	6.60	0.00	3789.53	-0.93	187.94	0.00	0.00	605846.62	622390.92	N 32 39 54.87	W 104 4 11.79
	3900.00	6.60	0.00	3888.87	-0.99	199.44	0.00	0.00	605858.11	622390.92	N 32 39 54.98	W 104 4 11.79
	4000.00	6.60	0.00	3988.20	-1.05	210.93	0.00	0.00	605869.60	622390.92	N 32 39 55.10	W 104 4 11.79
	4100.00	6.60	0.00	4087.54	-1.11	222.42	0.00	0.00	605881.10	622390.92	N 32 39 55.21	W 104 4 11.79
	4200.00	6.60	0.00	4186.88	-1.16	233.92	0.00	0.00	605892.59	622390.92	N 32 39 55.33	W 104 4 11.79
	4300.00	6.60	0.00	4286.22	-1.22	245.41	0.00	0.00	605904.08	622390.92	N 32 39 55.44	W 104 4 11.79
	4400.00	6.60	0.00	4385.55	-1.28	256.91	0.00	0.00	605915.57	622390.92	N 32 39 55.55	W 104 4 11.79
	4500.00	6.60	0.00	4484.89	-1.34	268.40	0.00	0.00	605927.07	622390.92	N 32 39 55.67	W 104 4 11.79
	4600.00	6.60	0.00	4584.23	-1.39	279.89	0.00	0.00	605938.56	622390.92	N 32 39 55.78	W 104 4 11.79
	4700.00	6.60	0.00	4683.56	-1.45	291.39	0.00	0.00	605950.05	622390.92	N 32 39 55.89	W 104 4 11.79
	4800.00	6.60	0.00	4782.90	-1.51	302.88	0.00	0.00	605961.54	622390.92	N 32 39 56.01	W 104 4 11.79
	4900.00	6.60	0.00	4882.24	-1.56	314.37	0.00	0.00	605973.04	622390.92	N 32 39 56.12	W 104 4 11.79
	5000.00	6.60	0.00	4981.58	-1.62	325.87	0.00	0.00	605984.53	622390.92	N 32 39 56.24	W 104 4 11.79
	5100.00	6.60	0.00	5080.91	-1.68	337.36	0.00	0.00	605996.02	622390.92	N 32 39 56.35	W 104 4 11.79
	5200.00	6.60	0.00	5180.25	-1.74	348.86	0.00	0.00	606007.52	622390.92	N 32 39 56.46	W 104 4 11.78
	5300.00	6.60	0.00	5279.59	-1.79	360.35	0.00	0.00	606019.01	622390.92	N 32 39 56.58	W 104 4 11.78
	5400.00	6.60	0.00	5378.93	-1.85	371.84	0.00	0.00	606030.50	622390.92	N 32 39 56.69	W 104 4 11.78
	5500.00	6.60	0.00	5478.26	-1.91	383.34	0.00	0.00	606041.99	622390.92	N 32 39 56.80	W 104 4 11.78
	5600.00	6.60	0.00	5577.60	-1.96	394.83	0.00	0.00	606053.49	622390.92	N 32 39 56.92	W 104 4 11.78
	5700.00	6.60	0.00	5676.94	-2.02	406.32	0.00	0.00	606064.98	622390.92	N 32 39 57.03	W 104 4 11.78
	5800.00	6.60	0.00	5776.27	-2.08	417.82	0.00	0.00	606076.47	622390.92	N 32 39 57.15	W 104 4 11.78
	5900.00	6.60	0.00	5875.61	-2.14	429.31	0.00	0.00	606087.96	622390.92	N 32 39 57.26	W 104 4 11.78
	6000.00	6.60	0.00	5974.95	-2.19	440.80	0.00	0.00	606099.46	622390.92	N 32 39 57.37	W 104 4 11.78
Drop to Vertical 2°/100' DLS	6025.22	6.60	0.00	6000.00	-2.21	443.70	0.00	0.00	606102.36	622390.92	N 32 39 57.40	W 104 4 11.78
	6100.00	5.10	0.00	6074.39	-2.24	451.33	0.00	2.00	606109.98	622390.92	N 32 39 57.48	W 104 4 11.78
	6200.00	3.10	0.00	6174.13	-2.28	458.49	0.00	2.00	606117.14	622390.92	N 32 39 57.55	W 104 4 11.78
Hold Vertical	6300.00	1.10	0.00	6274.06	-2.30	462.16	0.00	2.00	606120.81	622390.92	N 32 39 57.58	W 104 4 11.78
	6355.22	0.00	0.00	6329.27	-2.30	462.69	0.00	2.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78
	6400.00	0.00	0.00	6374.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78
	6500.00	0.00	0.00	6474.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78
	6600.00	0.00	0.00	6574.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78
	6700.00	0.00	0.00	6674.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59	W 104 4 11.78

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 ° ' ")
1st Bone Spring Sand	6800.00	0.00	0.00	6774.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	6900.00	0.00	0.00	6874.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	6975.95	0.00	0.00	6950.00	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7000.00	0.00	0.00	6974.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7100.00	0.00	0.00	7074.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7200.00	0.00	0.00	7174.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7300.00	0.00	0.00	7274.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7400.00	0.00	0.00	7374.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7500.00	0.00	0.00	7474.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7600.00	0.00	0.00	7574.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
2nd Bone Spring Sand	7700.00	0.00	0.00	7674.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7735.95	0.00	0.00	7710.00	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7800.00	0.00	0.00	7774.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	7900.00	0.00	0.00	7874.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	8000.00	0.00	0.00	7974.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	8100.00	0.00	0.00	8074.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	8200.00	0.00	0.00	8174.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	8300.00	0.00	0.00	8274.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	8400.00	0.00	0.00	8374.05	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
	8488.57	0.00	0.00	8462.62	-2.30	462.69	0.00	0.00	606121.34	622390.92	N 32 39 57.59 W 104 4 11.78	
KOP - Build 12°/100' DLS	8500.00	1.37	90.29	8474.05	-2.16	462.69	0.14	12.00	606121.34	622391.06	N 32 39 57.59 W 104 4 11.78	
	8600.00	13.37	90.29	8573.04	10.64	462.62	12.94	12.00	606121.28	622403.86	N 32 39 57.59 W 104 4 11.63	
	8700.00	25.37	90.29	8667.21	43.75	462.46	46.05	12.00	606121.11	622436.97	N 32 39 57.59 W 104 4 11.24	
	8737.01	29.81	90.29	8700.00	60.89	462.37	63.19	12.00	606121.03	622454.11	N 32 39 57.58 W 104 4 11.04	
	8800.00	37.37	90.29	8752.43	95.72	462.20	98.02	12.00	606120.85	622488.93	N 32 39 57.58 W 104 4 10.64	
	8900.00	49.37	90.29	8824.99	164.26	461.86	166.56	12.00	606120.51	622557.47	N 32 39 57.58 W 104 4 9.83	
	9000.00	61.37	90.29	8881.71	246.40	461.45	248.70	12.00	606120.10	622639.60	N 32 39 57.57 W 104 4 8.87	
	9100.00	73.37	90.29	8920.12	338.53	460.99	340.83	12.00	606119.64	622731.72	N 32 39 57.56 W 104 4 7.79	
	9200.00	85.37	90.29	8938.53	436.64	460.51	438.94	12.00	606119.16	622829.82	N 32 39 57.56 W 104 4 6.65	
	9229.65	88.93	90.29	8940.00	466.25	460.36	468.55	12.00	606119.01	622859.43	N 32 39 57.55 W 104 4 6.30	
Hold	9300.00	88.93	91.69	8941.31	536.58	459.14	538.87	2.00	606117.80	622929.74	N 32 39 57.54 W 104 4 5.48	
	9400.00	88.93	93.69	8943.18	636.47	454.45	638.74	2.00	606113.10	623029.60	N 32 39 57.49 W 104 4 4.31	
	9500.00	88.93	95.69	8945.05	736.15	446.27	738.38	2.00	606104.92	623129.24	N 32 39 57.41 W 104 4 3.14	
	9565.34	88.93	97.00	8946.27	801.12	439.05	803.31	2.00	606097.70	623194.16	N 32 39 57.34 W 104 4 2.39	
	9600.00	88.93	97.00	8946.92	835.53	434.82	837.70	0.00	606093.48	623228.55	N 32 39 57.29 W 104 4 1.98	
	9700.00	88.93	97.00	8948.79	934.82	422.64	936.94	0.00	606081.29	623327.78	N 32 39 57.17 W 104 4 0.82	
	9800.00	88.93	97.00	8950.65	1034.12	410.46	1036.18	0.00	606069.11	623427.01	N 32 39 57.05 W 104 3 59.66	
	9900.00	88.93	97.00	8952.52	1133.42	398.27	1135.41	0.00	606056.93	623526.24	N 32 39 56.92 W 104 3 58.50	
	10000.00	88.93	97.00	8954.39	1232.71	386.09	1234.65	0.00	606044.74	623625.46	N 32 39 56.80 W 104 3 57.34	
	10100.00	88.93	97.00	8956.25	1332.01	373.90	1333.89	0.00	606032.56	623724.69	N 32 39 56.68 W 104 3 56.18	
	10200.00	88.93	97.00	8958.12	1431.31	361.72	1433.12	0.00	606020.38	623823.92	N 32 39 56.55 W 104 3 55.02	
	10300.00	88.93	97.00	8959.99	1530.60	349.53	1532.36	0.00	606008.19	623923.15	N 32 39 56.43 W 104 3 53.86	
	10400.00	88.93	97.00	8961.85	1629.90	337.35	1631.60	0.00	605996.01	624022.38	N 32 39 56.31 W 104 3 52.70	
	10500.00	88.93	97.00	8963.72	1729.20	325.16	1730.84	0.00	605983.82	624121.61	N 32 39 56.19 W 104 3 51.54	
	10600.00	88.93	97.00	8965.59	1828.49	312.98	1830.07	0.00	605971.64	624220.84	N 32 39 56.06 W 104 3 50.38	
	10700.00	88.93	97.00	8967.45	1927.79	300.79	1929.31	0.00	605959.46	624320.07	N 32 39 55.94 W 104 3 49.22	
	10800.00	88.93	97.00	8969.32	2027.09	288.61	2028.55	0.00	605947.27	624419.30	N 32 39 55.82 W 104 3 48.06	
	10900.00	88.93	97.00	8971.19	2126.38	276.42	2127.79	0.00	605935.09	624518.52	N 32 39 55.69 W 104 3 46.90	

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 ° ' ")
Align to Target 2°/100' DLS	10983.76	88.93	97.00	8972.75	2209.56	266.22	2210.91	0.00	605924.88	624601.64	N 32 39 55.59 W 104	3 45.93
	11000.00	88.93	96.68	8973.05	2225.69	264.28	2227.03	2.00	605922.95	624617.76	N 32 39 55.57 W 104	3 45.74
	11100.00	88.93	94.67	8974.92	2325.22	254.40	2326.52	2.00	605913.07	624717.24	N 32 39 55.47 W 104	3 44.57
	11200.00	88.93	92.67	8976.79	2425.02	247.99	2426.29	2.00	605906.66	624817.00	N 32 39 55.40 W 104	3 43.41
	11300.00	88.93	90.67	8978.66	2524.97	245.07	2526.22	2.00	605903.74	624916.93	N 32 39 55.37 W 104	3 42.24
Hold to 4900' VS	11319.46	88.93	90.28	8979.02	2544.43	244.91	2545.68	2.00	605903.57	624936.38	N 32 39 55.37 W 104	3 42.01
	11400.00	88.93	90.28	8980.53	2624.96	244.50	2626.20	0.00	605903.17	625016.90	N 32 39 55.37 W 104	3 41.07
	11500.00	88.93	90.28	8982.39	2724.94	244.01	2726.19	0.00	605902.68	625116.87	N 32 39 55.36 W 104	3 39.90
	11600.00	88.93	90.28	8984.26	2824.92	243.51	2826.17	0.00	605902.18	625216.85	N 32 39 55.35 W 104	3 38.73
	11700.00	88.93	90.28	8986.13	2924.90	243.01	2926.15	0.00	605901.68	625316.82	N 32 39 55.34 W 104	3 37.56
	11800.00	88.93	90.28	8987.99	3024.89	242.52	3026.13	0.00	605901.18	625416.79	N 32 39 55.34 W 104	3 36.39
	11900.00	88.93	90.28	8989.86	3124.87	242.02	3126.11	0.00	605900.69	625516.76	N 32 39 55.33 W 104	3 35.22
	12000.00	88.93	90.28	8991.73	3224.85	241.52	3226.09	0.00	605900.19	625616.74	N 32 39 55.32 W 104	3 34.05
	12100.00	88.93	90.28	8993.59	3324.83	241.02	3326.07	0.00	605899.69	625716.71	N 32 39 55.31 W 104	3 32.88
	12200.00	88.93	90.28	8995.46	3424.82	240.53	3426.05	0.00	605899.20	625816.68	N 32 39 55.31 W 104	3 31.71
	12300.00	88.93	90.28	8997.33	3524.80	240.03	3526.04	0.00	605898.70	625916.65	N 32 39 55.30 W 104	3 30.54
	12400.00	88.93	90.28	8999.19	3624.78	239.53	3626.02	0.00	605898.20	626016.63	N 32 39 55.29 W 104	3 29.37
	12500.00	88.93	90.28	9001.06	3724.76	239.03	3726.00	0.00	605897.70	626116.60	N 32 39 55.28 W 104	3 28.20
	12600.00	88.93	90.28	9002.93	3824.75	238.54	3825.98	0.00	605897.21	626216.57	N 32 39 55.28 W 104	3 27.03
	12700.00	88.93	90.28	9004.79	3924.73	238.04	3925.96	0.00	605896.71	626316.55	N 32 39 55.27 W 104	3 25.86
	12800.00	88.93	90.28	9006.66	4024.71	237.54	4025.94	0.00	605896.21	626416.52	N 32 39 55.26 W 104	3 24.69
	12900.00	88.93	90.28	9008.53	4124.69	237.05	4125.92	0.00	605895.71	626516.49	N 32 39 55.25 W 104	3 23.53
	13000.00	88.93	90.28	9010.39	4224.68	236.55	4225.91	0.00	605895.22	626616.46	N 32 39 55.25 W 104	3 22.36
	13100.00	88.93	90.28	9012.26	4324.66	236.05	4325.89	0.00	605894.72	626716.44	N 32 39 55.24 W 104	3 21.19
	13200.00	88.93	90.28	9014.13	4424.64	235.55	4425.87	0.00	605894.22	626816.41	N 32 39 55.23 W 104	3 20.02
	13300.00	88.93	90.28	9015.99	4524.62	235.06	4525.85	0.00	605893.73	626916.38	N 32 39 55.22 W 104	3 18.85
	13400.00	88.93	90.28	9017.86	4624.61	234.56	4625.83	0.00	605893.23	627016.36	N 32 39 55.22 W 104	3 17.68
	13500.00	88.93	90.28	9019.73	4724.59	234.06	4725.81	0.00	605892.73	627116.33	N 32 39 55.21 W 104	3 16.51
	13600.00	88.93	90.28	9021.59	4824.57	233.56	4825.79	0.00	605892.23	627216.30	N 32 39 55.20 W 104	3 15.34
Align to Target	13675.44	88.93	90.28	9023.00	4900.00	233.19	4901.22	0.00	605891.86	627291.72	N 32 39 55.19 W 104	3 14.46
Hold to Target	13691.73	89.26	90.29	9023.26	4916.29	233.11	4917.51	2.00	605891.78	627308.01	N 32 39 55.19 W 104	3 14.27
	13700.00	89.26	90.29	9023.37	4924.56	233.07	4925.78	0.00	605891.74	627316.28	N 32 39 55.19 W 104	3 14.17
	13800.00	89.26	90.29	9024.66	5024.55	232.57	5025.77	0.00	605891.24	627416.26	N 32 39 55.19 W 104	3 13.00
	13900.00	89.26	90.29	9025.96	5124.54	232.07	5125.76	0.00	605890.74	627516.24	N 32 39 55.18 W 104	3 11.83
	14000.00	89.26	90.29	9027.26	5224.53	231.57	5225.75	0.00	605890.24	627616.22	N 32 39 55.17 W 104	3 10.66
	14100.00	89.26	90.29	9028.56	5324.52	231.08	5325.74	0.00	605889.75	627716.20	N 32 39 55.16 W 104	3 9.49
	14200.00	89.26	90.29	9029.85	5424.51	230.58	5425.73	0.00	605889.25	627816.18	N 32 39 55.16 W 104	3 8.32
Wolfcamp	14211.19	89.26	90.29	9030.00	5435.71	230.52	5436.92	0.00	605889.19	627827.38	N 32 39 55.15 W 104	3 8.19
	14300.00	89.26	90.29	9031.15	5524.51	230.08	5525.72	0.00	605888.75	627916.17	N 32 39 55.15 W 104	3 7.15
	14400.00	89.26	90.29	9032.45	5624.50	229.58	5625.71	0.00	605888.26	628016.15	N 32 39 55.14 W 104	3 5.98
	14500.00	89.26	90.29	9033.75	5724.49	229.09	5725.70	0.00	605887.76	628116.13	N 32 39 55.13 W 104	3 4.81
	14600.00	89.26	90.29	9035.05	5824.48	228.59	5825.69	0.00	605887.26	628216.11	N 32 39 55.13 W 104	3 3.64
	14700.00	89.26	90.29	9036.34	5924.47	228.09	5925.68	0.00	605886.76	628316.09	N 32 39 55.12 W 104	3 2.47
	14800.00	89.26	90.29	9037.64	6024.46	227.59	6025.67	0.00	605886.27	628416.08	N 32 39 55.11 W 104	3 1.30
	14900.00	89.26	90.29	9038.94	6124.45	227.10	6125.66	0.00	605885.77	628516.06	N 32 39 55.10 W 104	3 0.13
	15000.00	89.26	90.29	9040.24	6224.45	226.60	6225.65	0.00	605885.27	628616.04	N 32 39 55.09 W 104	2 58.96
	15100.00	89.26	90.29	9041.54	6324.44	226.10	6325.64	0.00	605884.77	628716.02	N 32 39 55.09 W 104	2 57.79
	15200.00	89.26	90.29	9042.83	6424.43	225.61	6425.63	0.00	605884.28	628816.00	N 32 39 55.08 W 104	2 56.62
	15300.00	89.26	90.29	9044.13	6524.42	225.11	6525.62	0.00	605883.78	628915.98	N 32 39 55.07 W 104	2 55.46
	15400.00	89.26	90.29	9045.43	6624.41	224.61	6625.61	0.00	605883.28	629015.97	N 32 39 55.06 W 104	2 54.29
	15500.00	89.26	90.29	9046.73	6724.40	224.11	6725.60	0.00	605882.78	629115.95	N 32 39 55.06 W 104	2 53.12
	15600.00	89.26	90.29	9048.03	6824.40	223.62	6825.59	0.00	605882.29	629215.93	N 32 39 55.05 W 104	2 51.95

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 ° ' ")
	15700.00	89.26	90.29	9049.32	6924.39	223.12	6925.58	0.00	605881.79	629315.91	N 32 39 55.04 W 104	2 50.78
	15800.00	89.26	90.29	9050.62	7024.38	222.62	7025.57	0.00	605881.29	629415.89	N 32 39 55.03 W 104	2 49.61
	15900.00	89.26	90.29	9051.92	7124.37	222.12	7125.56	0.00	605880.79	629515.88	N 32 39 55.03 W 104	2 48.44
	16000.00	89.26	90.29	9053.22	7224.36	221.63	7225.55	0.00	605880.30	629615.86	N 32 39 55.02 W 104	2 47.27
	16100.00	89.26	90.29	9054.52	7324.35	221.13	7325.54	0.00	605879.80	629715.84	N 32 39 55.01 W 104	2 46.10
	16200.00	89.26	90.29	9055.81	7424.35	220.63	7425.53	0.00	605879.30	629815.82	N 32 39 55.00 W 104	2 44.93
	16300.00	89.26	90.29	9057.11	7524.34	220.13	7525.52	0.00	605878.80	629915.80	N 32 39 55.00 W 104	2 43.76
	16400.00	89.26	90.29	9058.41	7624.33	219.64	7625.52	0.00	605878.31	630015.78	N 32 39 54.99 W 104	2 42.59
	16500.00	89.26	90.29	9059.71	7724.32	219.14	7725.51	0.00	605877.81	630115.77	N 32 39 54.98 W 104	2 41.42
	16600.00	89.26	90.29	9061.00	7824.31	218.64	7825.50	0.00	605877.31	630215.75	N 32 39 54.97 W 104	2 40.25
	16700.00	89.26	90.29	9062.30	7924.30	218.14	7925.49	0.00	605876.81	630315.73	N 32 39 54.97 W 104	2 39.08
	16800.00	89.26	90.29	9063.60	8024.29	217.65	8025.48	0.00	605876.32	630415.71	N 32 39 54.96 W 104	2 37.91
	16900.00	89.26	90.29	9064.90	8124.29	217.15	8125.47	0.00	605875.82	630515.69	N 32 39 54.95 W 104	2 36.74
	17000.00	89.26	90.29	9066.20	8224.28	216.65	8225.46	0.00	605875.32	630615.68	N 32 39 54.94 W 104	2 35.57
	17100.00	89.26	90.29	9067.49	8324.27	216.15	8325.45	0.00	605874.82	630715.66	N 32 39 54.94 W 104	2 34.40
	17200.00	89.26	90.29	9068.79	8424.26	215.66	8425.44	0.00	605874.33	630815.64	N 32 39 54.93 W 104	2 33.23
	17300.00	89.26	90.29	9070.09	8524.25	215.16	8525.43	0.00	605873.83	630915.62	N 32 39 54.92 W 104	2 32.06
	17400.00	89.26	90.29	9071.39	8624.24	214.66	8625.42	0.00	605873.33	631015.60	N 32 39 54.91 W 104	2 30.89
	17500.00	89.26	90.29	9072.69	8724.24	214.16	8725.41	0.00	605872.84	631115.58	N 32 39 54.90 W 104	2 29.72
	17600.00	89.26	90.29	9073.98	8824.23	213.67	8825.40	0.00	605872.34	631215.57	N 32 39 54.90 W 104	2 28.55
	17700.00	89.26	90.29	9075.28	8924.22	213.17	8925.39	0.00	605871.84	631315.55	N 32 39 54.89 W 104	2 27.38
	17800.00	89.26	90.29	9076.58	9024.21	212.67	9025.38	0.00	605871.34	631415.53	N 32 39 54.88 W 104	2 26.21
	17900.00	89.26	90.29	9077.88	9124.20	212.17	9125.37	0.00	605870.85	631515.51	N 32 39 54.87 W 104	2 25.05
	18000.00	89.26	90.29	9079.18	9224.19	211.68	9225.36	0.00	605870.35	631615.49	N 32 39 54.87 W 104	2 23.88
	18100.00	89.26	90.29	9080.47	9324.19	211.18	9325.35	0.00	605869.85	631715.47	N 32 39 54.86 W 104	2 22.71
	18200.00	89.26	90.29	9081.77	9424.18	210.68	9425.34	0.00	605869.35	631815.46	N 32 39 54.85 W 104	2 21.54
	18300.00	89.26	90.29	9083.07	9524.17	210.18	9525.33	0.00	605868.86	631915.44	N 32 39 54.84 W 104	2 20.37
	18400.00	89.26	90.29	9084.37	9624.16	209.69	9625.32	0.00	605868.36	632015.42	N 32 39 54.84 W 104	2 19.20
	18500.00	89.26	90.29	9085.67	9724.15	209.19	9725.31	0.00	605867.86	632115.40	N 32 39 54.83 W 104	2 18.03
	18600.00	89.26	90.29	9086.96	9824.14	208.69	9825.30	0.00	605867.36	632215.38	N 32 39 54.82 W 104	2 16.86
	18700.00	89.26	90.29	9088.26	9924.13	208.19	9925.29	0.00	605866.87	632315.37	N 32 39 54.81 W 104	2 15.69
	18800.00	89.26	90.29	9089.56	10024.13	207.70	10025.28	0.00	605866.37	632415.35	N 32 39 54.81 W 104	2 14.52

Cimarex
Parkway 15-14
North State Com
1H+PBHL [952'
FNL,100' FEL]

Survey Type: Def Plan

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	23.000	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS-Depth Only	Parkway 15-14 North State Com 1H / Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20
	1	23.000	18833.959	1/100.000	17.500	13.375		NAL_MWD_IFR1+MS	Parkway 15-14 North State Com 1H / Cimarex Parkway 15-14 North

Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20 Anti-Collision Summary Report

Analysis Date-24hr Time: February 28, 2020 - 15:40
 Client: Cimarex
 Field: NM Eddy County (NAD 83)
 Structure: Cimarex Parkway 15-14 North State Com 1H
 Slot: New Slot
 Well: Parkway 15-14 North State Com 1H
 Borehole: Parkway 15-14 North State Com 1H
 Scan MD Range: 0.00ft ~ 18833.96ft

Analysis Method: 3D Least Distance
 Reference Trajectory: Cimarex Parkway 15-14 North State Com 1H Rev6 RM 28Feb20 (Def Plan)
 Depth Interval: Every 10.00 Measured Depth (ft)
 Rule Set: NAL Procedure: D&M AntiCollision Standard S002
 Min Pts: All local minima indicated.
 Version / Patch: 2.10.787.0
 Database / Project: us1153APP452.DIR.SLB.COMDRILLING-NM Eddy County 2.10

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

Offset Selection Criteria

Wellhead distance scan: Not performed!

Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans

- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		

Results highlighted: Sep-Factor separation <= 1.50 ft

Cimarex Parkway State Com #2H (Offset) Gas Off-11630ft (Def Survey)													
611.45	32.81	610.17	578.65	N/A	MAS = 10.00 (m)	0.00	0.00						Surface
611.09	32.81	609.75	578.29	11105.81	MAS = 10.00 (m)	10.00	10.00						MinPt-O-SF
610.87	32.81	609.55	578.06	20506.59	MAS = 10.00 (m)	23.00	23.00						WRP
610.84	32.81	609.47	578.03	6281.62	MAS = 10.00 (m)	30.00	30.00						MinPts
610.59	184.09	487.44	426.50	5.00	OSF1.50	2700.00	2696.82	OSF<5.00					Enter Alert
580.85	302.95	378.45	277.89	2.88	OSF1.50	4620.00	4604.09						MinPt-Ct-Ct
585.95	586.54	194.49	-0.59	1.50	OSF1.50	8520.00	8494.03	OSF<1.50					Enter Minor
405.55	614.12	-4.40	-208.57	0.99	OSF1.50	8920.00	8837.69						Enter Major
66.70	621.78	-348.24	-555.06	0.16	OSF1.50	9340.00	8942.06	OSF<1.00					MinPts
66.69	621.76	-348.24	-555.07	0.16	OSF1.50	9350.00	8942.25						MinPts
406.50	622.03	-8.61	-215.53	0.98	OSF1.50	9750.00	8949.72	OSF>1.00					Exit Major
614.11	622.27	198.83	-8.17	1.48	OSF1.50	9960.00	8953.64						Exit Minor
2070.62	624.04	1654.16	1446.58	4.96	OSF1.50	11420.00	8980.90	OSF>5.00					Exit Alert
9480.24	632.17	9058.37	8848.07	22.54	OSF1.50	18833.96	9090.00						TD

Overland DRLG & EXP Lower State #1 (Offset) Plugged Oil Inc Only Off-2870ft (Def Survey)													
474.68	32.81	473.40	441.87	N/A	MAS = 10.00 (m)	0.00	0.00						Surface
474.24	32.81	472.89	441.43	7102.23	MAS = 10.00 (m)	10.00	10.00						MinPt-O-SF
473.98	32.81	472.66	441.17	16450.84	MAS = 10.00 (m)	23.00	23.00						WRP
473.97	144.26	377.37	329.71	4.96	OSF1.50	530.00	530.00	OSF<5.00					Enter Alert
473.97	474.34	157.31	-0.37	1.50	OSF1.50	1580.00	1580.00			OSF<1.50			Enter Minor
473.97	606.38	69.29	-132.41	1.17	OSF1.50	2000.00	2000.00						MinPt-Ct-Ct
516.58	775.47	-0.85	-258.91	1.00	OSF1.50	2540.00	2537.88						Enter Major
557.51	887.85	-34.85	-330.36	0.94	OSF1.50	2900.00	2895.49	OSF<1.00					MinPts
580.32	872.36	-1.68	-292.04	1.00	OSF1.50	3010.00	3004.76						Exit Major
728.38	736.96	236.65	-8.57	1.48	OSF1.50	3310.00	3302.78	OSF>1.50					Exit Minor
1434.25	435.04	1143.79	999.21	4.96	OSF1.50	4160.00	4147.14	OSF>5.00					Exit Alert
8629.46	631.06	8208.32	7998.36	20.55	OSF1.50	14720.00	9036.60						MinPt-O-SF
11898.38	766.93	11386.67	11131.45	23.31	OSF1.50	18833.96	9090.00						TD

Cimarex Parkway 15-14 North State Com 2H Rev6 RM 28Feb20 (Def Plan)													
7853.35	32.81	7852.07	7820.54	N/A	MAS = 10.00 (m)	0.00	0.00						Surface
7853.35	32.81	7852.06	7820.54	N/A	MAS = 10.00 (m)	10.00	10.00						MinPts
7853.35	32.81	7851.89	7820.54	45629.72	MAS = 10.00 (m)	23.00	23.00						WRP
7850.64	66.50	7805.88	7784.15	180.55	OSF1.50	1360.00	1360.00						MinPt-Ct-Ct
7854.96	160.91	7747.28	7694.07	73.80	OSF1.50	3150.00	3143.84						MinPt-Ct-Ct
7860.24	246.17	7695.70	7614.07	48.14	OSF1.50	4770.00	4753.10						MinPt-Ct-Ct
7864.91	272.23	7683.00	7592.68	43.53	OSF1.50	5430.00	5408.73						MINPT-O-EQU
7850.79	365.03	7606.97	7485.73	32.37	OSF1.50	7060.00	7034.05						MinPt-Ct-Ct
1560.39	476.00	1240.04	1084.39	4.98	OSF1.50	15100.00	9041.54	OSF<5.00					Enter Alert
505.17	507.12	164.68	-1.96	1.49	OSF1.50	16200.00	9058.98	OSF<1.50					Enter Minor
389.40	525.59	38.59	-136.19	1.11	OSF1.50	16610.00	9061.13						MinPts
502.58	504.89	165.59	-2.31	1.49	OSF1.50	16930.00	9065.29	OSF>1.50					Exit Minor
1575.66	474.92	1258.62	1100.75	4.99	OSF1.50	18140.00	9080.99	OSF>5.00					Exit Alert
2254.05	474.36	1937.37	1779.88	7.14	OSF1.50	18833.96	9090.00						TD

Cimarex Parkway 15-14 North State Com 2H Rev6 RM 28Feb20 (Def Plan)													
20.00	18.25	18.71	3.75	N/A	MAS = 4.95 (m)	0.00	0.00						Enter Alert
19.99	18.25	18.71	3.74	N/A	MAS = 4.95 (m)	23.00	23.00						WRP
19.99	19.56	6.53	0.43	1.54	OSF1.50	2000.00	2000.00						MinPts
20.03	19.61	6.53	0.42	1.53	OSF1.50	2010.00	2010.00						MinPts
62.11	20.21	48.21	41.91	4.82	OSF1.50	2350.00	2349.14	OSF>5.00					Exit Alert
1457.83	60.95	1416.77	1396.88	36.62	OSF1.50	9210.00	8939.23						MinPt-Ct-Ct
1252.71	123.63	1169.86	1129.08	15.34	OSF1.50	11319.46	8979.02						MinPt-Ct-Ct
1253.80	223.04	1104.68	1030.76	8.47	OSF1.50	13770.00	9024.27						MINPT-O-EQU
1255.24	224.76	1104.97	1030.46	8.42	OSF1.50	13820.00	9024.92						MinPt-O-ADP
1331.84	400.69	1064.28	931.15	5.00	OSF1.50	17930.00	9078.27	OSF<5.00					Enter Alert
1331.84	439.67	1038.23	892.16	4.55	OSF1.50	18833.96	9090.00						MinPts

Cimarex Parkway State Com #3H (Offset) Oil Off-12324ft (Def Survey)													
3743.07	32.81	3741.78	3710.26	N/A	MAS = 10.00 (m)	0.00	0.00						Surface
3743.06	32.81	3741.76	3710.26	N/A	MAS = 10.00 (m)	10.00	10.00						MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
EOG Derry Sullivan #1 (Offset) Plugged Oil Blind Off-2220ft (Def Survey)	3743.08	32.81	3741.78	3710.27	488403.78	MAS = 10.00 (m)	23.00	23.00				WRP	
	3700.40	32.81	3689.88	3667.59	401.15	MAS = 10.00 (m)	2080.00	2079.99				MinPts	
	3700.42	32.81	3689.85	3667.61	399.30	MAS = 10.00 (m)	2090.00	2089.99				MINPT-O-EQU	
	433.40	133.24	344.14	300.16	4.91	OSF1.50	7610.00	7584.05	OSF<5.00			Enter Alert	
	219.85	219.21	73.26	0.65	1.50	OSF1.50	7980.00	7954.05				MinPts	
	444.12	134.34	354.12	309.77	4.99	OSF1.50	6370.00	6344.05	OSF>5.00			Exit Alert	
	1270.52	157.56	1165.05	1112.96	12.18	OSF1.50	9780.00	8950.28				MinPt-O-SF	
	9891.82	241.52	9730.37	9650.30	61.75	OSF1.50	18833.96	9090.00				TD	
Warning Alert													
Cimarex Parkway A State Com #1 (Offset) Plugged Gas Inc Only Off-11740ft (Def Survey)	858.29	32.81	855.00	823.48	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	858.12	32.81	854.20	823.31	1359.92	MAS = 10.00 (m)	23.00	23.00				WRP	
	858.12	260.26	682.18	595.86	4.95	OSF1.50	890.00	890.00	OSF<5.00			Enter Alert	
	843.58	682.85	387.91	160.73	1.85	OSF1.50	2280.00	2279.55				MinPts	
	843.16	682.40	387.73	160.76	1.85	OSF1.50	2290.00	2289.50	OSF>5.00			MINPT-O-EQU	
	842.25	679.62	388.78	162.67	1.86	OSF1.50	2330.00	2329.27				MinPt-CICI	
	1281.54	388.29	1022.25	893.25	4.96	OSF1.50	3300.00	3292.84				Exit Alert	
	9570.07	492.53	9241.29	9077.54	29.22	OSF1.50	15390.00	9045.30				MinPt-O-SF	
	12255.44	580.91	11867.73	11674.52	31.71	OSF1.50	18833.96	9090.00				TD	
Warning Alert													
Cimarex Parkway A State Com #1 (Offset) Plugged Gas Inc Only Off-11740ft (Def Survey)	3963.68	32.81	3962.39	3930.87	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3963.49	32.81	3962.18	3930.68	165515.31	MAS = 10.00 (m)	23.00	23.00				MinPt-O-SF	
	3963.43	32.81	3962.03	3930.63	32722.63	MAS = 10.00 (m)	50.00	50.00				MinPts	
	1948.85	588.37	1555.46	1360.48	4.99	OSF1.50	11150.00	8975.86	OSF<5.00			Enter Alert	
	1230.41	597.46	631.67	632.95	3.09	OSF1.50	12660.00	9004.05				MinPts	
	1230.47	597.51	631.69	632.95	3.09	OSF1.50	12670.00	9004.23	OSF>5.00			MinPt-O-SF	
	1980.72	595.15	1583.53	1385.58	5.00	OSF1.50	14210.00	9029.98				Exit Alert	
	6297.16	592.94	5901.44	5704.23	15.96	OSF1.50	18833.96	9090.00				TD	
Warning Alert													
Cimarex State 14 Com #1 (Offset) Oil Inc Only Off-11560ft (Def Survey)	5590.33	32.81	5589.05	5557.52	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	5590.18	32.81	5588.87	5557.37	266746.47	MAS = 10.00 (m)	23.00	23.00				WRP	
	5590.12	32.81	5588.77	5557.31	87584.97	MAS = 10.00 (m)	50.00	50.00				MinPts	
	2267.04	685.06	1808.71	1581.98	4.99	OSF1.50	12450.00	9000.13	OSF<5.00			Enter Alert	
	1298.59	701.03	830.81	597.56	2.78	OSF1.50	14310.00	9031.28				MinPts	
	1298.64	701.10	830.81	597.54	2.78	OSF1.50	14320.00	9031.41	OSF>5.00			MinPts	
	2302.33	693.35	1839.57	1608.98	4.99	OSF1.50	16210.00	9055.94				Exit Alert	
	4707.54	689.83	4247.23	4017.71	10.25	OSF1.50	18833.96	9090.00				TD	
Warning Alert													
Cimarex Parkway C State Com #1 (Offset) Plugged Oil Inc Only Off-10850ft (Def Survey)	1769.57	32.81	1768.28	1736.76	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1769.43	32.81	1768.13	1736.62	83896.62	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	1769.34	32.81	1768.04	1736.53	116795.54	MAS = 10.00 (m)	23.00	23.00				WRP	
	1769.33	32.81	1768.02	1736.52	68803.57	MAS = 10.00 (m)	30.00	30.00				MinPts	
	1800.41	161.08	1692.59	1639.32	16.89	OSF1.50	2220.00	2219.78	OSF<5.00			MINPT-O-EQU	
	1821.25	184.24	1698.00	1637.01	14.92	OSF1.50	2540.00	2537.88				MinPt-O-ADP	
	1987.39	597.91	1588.36	1389.49	4.99	OSF1.50	8970.00	8866.52	OSF>5.00			Enter Alert	
	1332.35	606.79	927.39	725.56	3.30	OSF1.50	10510.00	8963.91				MinPts	
	2025.99	609.24	1619.40	1416.74	5.00	OSF1.50	11950.00	8990.79				Exit Alert	
	8570.67	615.24	8160.06	7955.43	20.94	OSF1.50	18833.96	9090.00				TD	
Warning Alert													
Western Oil Fields D Sullivan State #2 (Offset) Plugged Oil Blind Off-15778 (Def Survey)	1501.45	32.81	1500.17	1468.65	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1501.38	32.81	1499.25	1468.57	1789.82	MAS = 10.00 (m)	23.00	23.00				WRP	
	1501.38	452.65	1199.18	1048.73	4.99	OSF1.50	1500.00	1500.00	OSF<5.00			Enter Alert	
	1501.38	480.94	1180.32	1020.44	4.69	OSF1.50	1590.00	1590.00				MinPt-CICI	
	1501.40	481.57	1179.93	1019.83	4.69	OSF1.50	1600.00	1600.00	OSF>5.00			MinPts	
	1560.70	466.36	1239.37	1094.34	5.00	OSF1.50	1980.00	1980.00				Exit Alert	
	7374.56	43.53	7345.11	7331.03	261.80	OSF1.50	9790.00	8949.72				MinPt-O-ADP	
	7374.30	43.24	7345.04	7331.06	263.62	OSF1.50	9800.00	8950.65				MINPT-O-EQU	
	7374.25	43.22	7345.05	7331.07	263.77	OSF1.50	9810.00	8950.84				MinPt-CICI	
	10408.99	361.45	10167.59	10047.54	43.33	OSF1.50	17230.00	9069.18				MinPt-O-SF	
	11592.29	394.78	11328.67	11197.51	44.19	OSF1.50	18833.96	9090.00				TD	
Warning Alert													
Aradco Summit #1 (Offset) Plugged Oil Blind Off-4245ft (Def Survey)	3317.96	32.81	3316.67	3285.15	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	3317.92	32.81	3315.90	3285.11	4522.53	MAS = 10.00 (m)	23.00	23.00				WRP	
	3289.77	987.86	2630.76	2301.91	5.00	OSF1.50	3210.00	3203.44	OSF<5.00			Enter Alert	
	3264.84	1320.27	2384.22	1944.57	3.71	OSF1.50	4310.00	4296.15				MinPt-O-SF	
	3264.76	1320.22	2384.17	1944.53	3.71	OSF1.50	4320.00	4306.08	OSF>5.00			MINPT-O-EQU	
	3264.71	1320.16	2384.15	1944.54	3.71	OSF1.50	4330.00	4316.02				MinPt-CICI	
	3264.68	1320.09	2384.18	1944.59	3.71	OSF1.50	4340.00	4325.95				Exit Alert	
	3766.95	1133.66	3010.75	2633.29	4.99	OSF1.50	6220.00	6194.10				MinPt-O-ADP	
	4887.27	358.57	4647.80	4528.70	20.51	OSF1.50	10790.00	8969.13				MINPT-O-EQU	
	4807.17	262.25	4631.91	4544.93	27.62	OSF1.50	11270.00	8978.10				MinPt-CICI	
Cimarex Parkway State Com #5 (Offset) MWD Off-12288ft (Def Survey)	4766.56	182.23	4644.65	4584.33	39.50	OSF1.50	11890.00	8989.67				MinPt-O-ADP	
	4877.85	317.20	4665.96	4560.65	23.15	OSF1.50	12930.00	9009.09				MinPt-O-SF	
	6721.61	933.07	6099.14	5788.54	10.82	OSF1.50	16690.00	9061.65				MinPt-O-SF	
	8402.74	1088.47	7676.67	7314.27	11.59	OSF1.50	18833.96	9090.00				TD	
Pass													
Cimarex Parkway State Com #5 (Offset) MWD Off-12288ft (Def Survey)	1777.38	32.81	1776.09	1744.57	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1777.35	32.81	1776.05	1744.57	N/A	MAS = 10.00 (m)	10.00	10.00				MinPts	
	1777.38	32.81	1776.08	1744.57	121928.71	MAS = 10.00 (m)	23.00	23.00				WRP	
	1777.48	32.81	1776.01	1744.67	9678.09	MAS = 10.00 (m)	80.00	80.00				MINPT-O-EQU	
	1778.73	32.81	1774.94	1745.92	712.71	MAS = 10.00 (m)	600.00	600.00				MINPT-O-EQU	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
1516.88	42.09	1488.30	1474.75	56.07		OSF1.50	6100.00	6074.39				MinPt-O-SF	
1498.94	42.39	1470.16	1456.55	55.04		OSF1.50	6680.00	6664.05				MinPt-CICI	
1498.07	42.78	1470.03	1456.29	54.52		OSF1.50	6750.00	6724.05				MINPT-O-EQU	
1498.18	42.91	1470.05	1456.27	54.35		OSF1.50	6770.00	6744.05				MinPt-O-ADP	
1499.83	46.01	1468.62	1453.81	50.58		OSF1.50	7250.00	7224.05				MinPt-CICI	
1499.98	46.47	1468.47	1453.61	50.07		OSF1.50	7320.00	7294.05				MINPT-O-EQU	
1500.14	46.66	1468.50	1453.49	49.86		OSF1.50	7350.00	7324.05				MinPt-O-ADP	
1498.90	48.60	1465.97	1450.30	47.73		OSF1.50	7650.00	7624.05				MinPt-O-SF	
1473.10	52.39	1437.67	1420.70	43.38		OSF1.50	7970.00	7944.05				MinPt-CICI	
1473.13	52.51	1437.62	1420.62	43.28		OSF1.50	7980.00	7954.05				MINPT-O-EQU	
1473.22	52.62	1437.64	1420.60	43.18		OSF1.50	7990.00	7964.05				MinPt-O-ADP	
1484.58	53.73	1448.29	1430.83	42.53		OSF1.50	8160.00	8134.05				MinPt-O-SF	
1229.35	40.51	1201.91	1188.83	46.95		OSF1.50	9500.00	8945.05				MinPt-O-SF	
1195.41	38.48	1168.66	1155.93	46.90		OSF1.50	9560.00	8946.17				MinPt-O-SF	
994.80	38.06	969.00	956.74	40.52		OSF1.50	10230.00	8958.68				MinPt-CICI	
994.83	38.22	968.92	956.61	40.35		OSF1.50	10240.00	8958.87				MINPT-O-EQU	
994.96	38.39	968.94	956.57	40.18		OSF1.50	10250.00	8959.05				MinPt-O-ADP	
1151.45	51.30	1116.82	1100.19	34.43		OSF1.50	10820.00	8969.69				MinPt-O-SF	
8638.57	71.90	8590.20	8566.67	183.48		OSF1.50	18833.96	9090.00				TD	

Cimarex State 14 CSM #3 (Offset) Oil MWD OR-12512n (Def Survey)													
7043.88	32.81	7042.38	7011.07	33520.72	MAS = 10.00 (m)	0.00	0.00					Surface	
7043.58	32.81	7042.04	7010.77	27280.22	MAS = 10.00 (m)	23.00	23.00					WRP	
7038.03	32.81	7032.61	7005.22	1369.91	MAS = 10.00 (m)	1120.00	1120.00					MinPts	
7039.30	32.81	7032.35	7005.49	1240.62	MAS = 10.00 (m)	1250.00	1250.00					MINPT-O-EQU	
7040.05	32.81	7032.27	7007.24	1083.32	MAS = 10.00 (m)	1400.00	1400.00					MINPT-O-EQU	
7049.25	32.81	7036.96	7016.44	840.50	MAS = 10.00 (m)	2390.00	2388.87					MinPt-O-SF	
6972.48	41.84	6944.14	6930.64	258.32	OSF1.50	6100.00	6074.39					MinPt-O-SF	
6960.21	44.48	6930.09	6915.73	242.22	OSF1.50	7030.00	7004.05					MinPt-CICI	
6960.48	45.20	6929.83	6915.28	238.26	OSF1.50	7140.00	7114.05					MINPT-O-EQU	
6960.93	45.73	6929.96	6915.20	235.41	OSF1.50	7220.00	7194.05					MinPt-O-ADP	
6922.18	59.47	6882.09	6862.71	178.61	OSF1.50	8030.00	8004.05					MinPt-CICI	
6922.23	59.63	6882.02	6862.60	178.11	OSF1.50	8060.00	8034.05					MINPT-O-EQU	
6922.27	59.69	6882.03	6862.59	177.95	OSF1.50	8070.00	8044.05					MinPt-O-ADP	
6937.70	61.83	6886.05	6875.87	171.84	OSF1.50	8500.00	8474.05					MinPt-O-SF	
1040.94	151.99	939.19	888.95	10.35	OSF1.50	15680.00	9049.05					MinPt-CICI	
1041.00	152.15	939.13	888.84	10.34	OSF1.50	15690.00	9049.19					MINPT-O-EQU	
1041.15	152.31	939.18	888.84	10.33	OSF1.50	15700.00	9049.32					MinPt-O-ADP	
1043.35	152.90	940.99	890.45	10.31	OSF1.50	15750.00	9049.97					MinPt-O-SF	
3320.42	86.62	3260.92	3231.80	57.01	OSF1.50	18833.96	9090.00					TD	

Cimarex Parkway State Com #6H (Offset) Oil MWD OR-12475n (Def Survey)													
4599.65	32.81	4598.36	4566.84	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
4599.63	32.81	4598.36	4566.84	N/A	MAS = 10.00 (m)	10.00	10.00					MinPts	
4599.65	32.81	4598.36	4566.84	765289.45	MAS = 10.00 (m)	23.00	23.00					WRP	
4599.69	32.81	4598.33	4566.88	60687.66	MAS = 10.00 (m)	50.00	50.00					MINPT-O-EQU	
4654.71	32.81	4646.79	4621.90	701.62	MAS = 10.00 (m)	1480.00	1480.00					MinPt-O-SF	
4638.20	32.81	4617.83	4605.39	242.97	MAS = 10.00 (m)	4320.00	4306.06					MinPts	
4638.30	32.81	4617.70	4605.50	240.13	MAS = 10.00 (m)	4370.00	4355.75					MINPT-O-EQU	
4638.84	41.97	4510.39	4496.87	167.83	OSF1.50	6100.00	6074.39					MinPt-O-SF	
4422.32	63.35	4379.62	4358.98	107.10	OSF1.50	7990.00	7964.05					MinPt-CICI	
4422.34	63.40	4379.60	4358.94	107.00	OSF1.50	8000.00	7974.05					MINPT-O-EQU	
4422.38	63.45	4379.60	4358.92	106.91	OSF1.50	8010.00	7984.05					MinPt-O-ADP	
4450.47	65.56	4406.33	4384.91	103.84	OSF1.50	8486.57	8462.62					MinPt-O-SF	
1053.31	97.46	987.90	955.84	16.41	OSF1.50	13170.00	9013.57					MinPt-CICI	
1053.36	97.63	987.83	955.74	16.38	OSF1.50	13180.00	9013.75					MINPT-O-EQU	
1053.52	97.79	987.90	955.73	16.36	OSF1.50	13190.00	9013.94					MinPt-O-ADP	
1060.21	99.09	993.72	961.12	16.24	OSF1.50	13290.00	9015.81					MinPt-O-SF	
2567.08	83.68	2510.86	2483.35	46.71	OSF1.50	15520.00	9046.99					MinPt-O-SF	
5730.14	74.82	5679.83	5655.32	116.85	OSF1.50	18833.96	9090.00					TD	

Cimarex Parkway State Com #4H (Offset) Oil MWD OR-12552n (Def Survey)													
4969.16	32.81	4967.88	4936.36	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
4969.06	32.81	4967.76	4936.26	367836.14	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF	
4969.05	32.81	4967.75	4936.24	388396.94	MAS = 10.00 (m)	23.00	23.00					WRP	
4969.03	32.81	4967.71	4936.22	131461.45	MAS = 10.00 (m)	40.00	40.00					MinPts	
4969.05	32.81	4967.68	4936.24	60096.37	MAS = 10.00 (m)	60.00	60.00					MINPT-O-EQU	
4972.05	32.81	4968.53	4939.24	2227.20	MAS = 10.00 (m)	480.00	480.00					MINPT-O-EQU	
4979.40	32.81	4971.68	4946.59	773.73	MAS = 10.00 (m)	1370.00	1370.00					MinPts	
4979.47	32.81	4971.63	4946.66	759.36	MAS = 10.00 (m)	1400.00	1400.00					MINPT-O-EQU	
4979.83	32.81	4971.79	4947.03	736.42	MAS = 10.00 (m)	1450.00	1450.00					MinPt-O-SF	
4982.57	32.81	4952.36	4929.75	566.64	MAS = 10.00 (m)	2060.00	2060.00					MinPts	
4982.59	32.81	4952.34	4929.78	554.05	MAS = 10.00 (m)	2070.00	2069.99					MINPT-O-EQU	
2845.37	245.87	2690.79	2599.50	17.49	OSF1.50	7950.00	7924.05					MinPt-CICI	
2845.38	245.88	2690.79	2599.49	17.49	OSF1.50	7960.00	7934.05					MinPts	
2845.50	245.90	2690.90	2599.60	17.45	OSF1.50	7980.00	7954.05					MinPt-O-SF	
1367.53	166.40	1255.93	1201.13	12.43	OSF1.50	10770.00	8968.76					MinPt-O-SF	
1057.00	106.34	985.45	950.66	15.16	OSF1.50	11650.00	8985.19					MinPts	
1056.99	106.30	985.46	950.69	15.17	OSF1.50	11660.00	8985.38					MinPt-CICI	
1282.32	148.93	1182.37	1133.39	13.07	OSF1.50	12390.00	8999.01					MinPt-O-SF	
7204.50	185.67	7080.06	7018.83	58.81	OSF1.50	18833.96	9090.00					TD	

EOG Dicky Sullivan #3 (Offset) Plugged Oil OR-2406H (Def Survey)													
1342.86	32.81	1341.57	1310.05	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
1342.75	32.81	1341.41	1309.95	22850.26	MAS = 10.00 (m)	20.00	20.00					MinPts	
1342.75	32.81	1341.35	1309.95	11424.92	MAS = 10.00 (m)	23.00	23.00					WRP	
1338.53	59.25	1296.60	1279.28	34.61	OSF1.50	1230.00	1230.00					MinPt-CICI	
1341.01	121.58	1259.53	1219.43	16.71	OSF1.50	2460.00	2458.41					MinPt-O-SF	
1340.87	121.55	1259.41	1219.32	16.71	OSF1.50	2480.00	2478.28					MinPts	
6532.23	32.81	6511.64	6499.42	338.30	MAS = 10.00 (m)	9880.00	8952.15					MinPts	
6532.62	32.81	6511.24	6499.81	325.15	MAS = 10.00 (m)	9950.00	8953.45					MINPT-O-EQU	
8835.88	142.01	8740.78	8693.87	94.17	OSF1.50	15860.00	9051.40					MinPt-O-SF	
11051.60	164.83	10941.29	10886.77	101.35	OSF1.50	18833.96	9090.00					TD	

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)		Minor	Major		
Cimarex State 14 Com #2 (Offset) Gas Shut in On 12042.74ft (Def Survey)													
	5509.79	32.81	5508.50	5476.98	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	5509.70	32.81	5508.41	5476.90	591397.73	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF
	5509.70	32.81	5508.40	5476.89	668535.05	MAS = 10.00 (m)	23.00	23.00					WRP
	5506.43	32.81	5500.33	5473.68	1128.18	MAS = 10.00 (m)	1060.00	1060.00					MinPts
	5506.59	32.81	5500.24	5473.78	1087.78	MAS = 10.00 (m)	1110.00	1110.00					MINPT-O-EQU
	5497.84	32.81	5486.34	5465.03	538.48	MAS = 10.00 (m)	2160.00	2159.92					MinPts
	5500.56	32.81	5484.75	5467.75	378.87	MAS = 10.00 (m)	2950.00	2945.16					MINPT-O-EQU
	5525.54	32.97	5503.13	5492.57	261.52	OSF1.50	4480.00	4466.02					MinPt-CtCt
	5523.98	35.81	5499.67	5488.16	239.95	OSF1.50	4850.00	4832.57					MinPt-CtCt
	5524.19	36.38	5499.50	5487.80	236.03	OSF1.50	4930.00	4912.04					MINPT-O-EQU
	5508.30	42.95	5479.24	5465.36	198.32	OSF1.50	5740.00	5716.67					MinPt-CtCt
	5508.38	43.19	5479.18	5465.20	197.13	OSF1.50	5780.00	5756.41					MINPT-O-EQU
	5508.48	43.31	5479.18	5465.17	196.55	OSF1.50	5800.00	5776.27					MinPt-O-ADP
	5514.63	44.76	5484.37	5469.88	190.24	OSF1.50	6100.00	6074.39					MinPt-O-SF
	5515.00	45.16	5484.53	5469.90	188.49	OSF1.50	6720.00	6694.05					MinPt-CtCt
	5515.13	45.38	5484.44	5469.74	187.54	OSF1.50	6760.00	6734.05					MINPT-O-EQU
	5515.27	45.56	5484.47	5469.71	186.82	OSF1.50	6790.00	6764.05					MinPt-O-ADP
	5519.18	47.11	5487.34	5472.07	180.60	OSF1.50	7090.00	7064.05					MINPT-O-EQU
	5519.28	47.23	5487.37	5472.05	180.14	OSF1.50	7110.00	7084.05					MinPt-O-ADP
	5544.10	55.07	5606.95	5589.02	157.36	OSF1.50	8500.00	8474.05					MinPt-O-SF
	1516.24	164.27	1506.30	1451.98	14.86	OSF1.50	14360.00	9031.93					MinPt-CtCt
	1516.54	165.18	1505.95	1451.35	14.78	OSF1.50	14390.00	9032.32					MINPT-O-EQU
	1517.03	165.79	1506.06	1451.25	14.73	OSF1.50	14410.00	9032.58					MinPt-O-ADP
	1540.82	171.41	1526.11	1469.40	14.45	OSF1.50	14650.00	9035.70					MinPt-O-SF
	4623.80	148.66	4524.27	4475.14	47.05	OSF1.50	18833.96	9090.00					TD
Cimarex State 14 Com #2 ST01 (Offset) Oil On 10644ft (Def Survey)													
	5509.79	32.81	5508.50	5476.98	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	5509.70	32.81	5508.41	5476.90	591397.73	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF
	5509.70	32.81	5508.40	5476.89	668535.05	MAS = 10.00 (m)	23.00	23.00					WRP
	5489.52	32.81	5476.03	5456.75	448.71	MAS = 10.00 (m)	2290.00	2289.50					MinPts
	5490.63	32.81	5474.43	5457.82	369.78	MAS = 10.00 (m)	2760.00	2756.42					MINPT-O-EQU
	5492.81	45.25	5462.21	5447.56	187.43	OSF1.50	5830.00	5806.08					MinPt-CtCt
	5492.89	45.50	5462.13	5447.39	186.31	OSF1.50	5870.00	5845.81					MINPT-O-EQU
	5493.05	45.70	5462.18	5447.36	185.49	OSF1.50	5900.00	5875.61					MinPt-O-ADP
	5494.67	46.49	5463.24	5448.17	182.28	OSF1.50	6025.22	6000.00					MinPt-O-SF
	5492.10	47.98	5459.69	5444.12	176.38	OSF1.50	6800.00	6774.05					MinPt-CtCt
	5492.22	48.34	5459.58	5443.88	175.03	OSF1.50	6860.00	6834.05					MINPT-O-EQU
	5492.37	48.52	5459.58	5443.88	174.38	OSF1.50	6890.00	6864.05					MinPt-O-ADP
	5526.40	56.86	5588.06	5569.54	151.82	OSF1.50	8500.00	8474.05					MinPt-O-SF
	1719.62	146.45	1621.76	1573.37	17.76	OSF1.50	14200.00	9029.85					MinPt-CtCt
	1720.07	147.10	1621.58	1572.97	17.68	OSF1.50	14230.00	9030.24					MINPT-O-EQU
	1720.27	147.30	1621.64	1572.96	17.66	OSF1.50	14240.00	9030.37					MinPt-O-ADP
	1736.34	150.52	1635.57	1586.83	17.44	OSF1.50	14440.00	9032.97					MinPt-O-SF
	4941.13	103.89	4871.44	4837.24	72.21	OSF1.50	18833.96	9090.00					TD
Cimarex State 14 A Com #2 ST01 (Offset) MWD On 12160ft (Def Survey)													
	6999.73	32.81	6998.44	6966.93	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	6999.65	32.81	6998.26	6966.84	63383.47	MAS = 10.00 (m)	23.00	23.00					WRP
	6997.50	32.81	6994.64	6964.75	4300.04	MAS = 10.00 (m)	410.00	410.00					MinPts
	6998.85	32.81	6992.83	6966.04	1496.02	MAS = 10.00 (m)	1020.00	1020.00					MINPT-O-EQU
	7003.92	32.81	6993.14	6971.12	736.91	MAS = 10.00 (m)	2200.00	2199.84					MinPts
	7005.15	32.81	6992.70	6972.35	626.90	MAS = 10.00 (m)	2560.00	2557.75					MINPT-O-EQU
	7305.45	41.57	7367.31	7353.88	275.32	OSF1.50	6025.22	6000.00					MinPt-O-SF
	7406.52	42.05	7378.06	7364.47	272.47	OSF1.50	6070.00	6044.52					MinPt-O-SF
	7448.32	42.00	7419.89	7406.32	274.34	OSF1.50	6250.00	6224.08					MinPt-O-SF
	7683.99	52.31	7648.68	7631.68	225.85	OSF1.50	7350.00	7324.05					MinPt-O-ADP
	7920.80	61.73	7879.22	7859.07	196.53	OSF1.50	8500.00	8474.05					MinPt-O-SF
	1981.85	246.78	1816.91	1735.08	12.10	OSF1.50	16690.00	9062.17					MinPt-CtCt
	1982.40	248.47	1818.32	1733.92	12.02	OSF1.50	16740.00	9062.82					MINPT-O-EQU
	1982.95	249.11	1816.44	1733.83	11.99	OSF1.50	16760.00	9063.08					MinPt-O-ADP
	2004.53	255.16	1834.00	1749.37	11.84	OSF1.50	17000.00	9066.20					MinPt-O-SF
	2884.93	233.99	2728.50	2650.93	18.59	OSF1.50	18833.96	9090.00					TD
Cimarex State 14 A Com #2 ST01 (Offset) MWD On 10415ft (Def Survey)													
	6999.75	32.81	6998.46	6966.94	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	6999.72	32.81	6998.38	6966.91	120178.66	MAS = 10.00 (m)	23.00	23.00					WRP
	6997.78	32.81	6994.77	6964.95	4106.46	MAS = 10.00 (m)	440.00	440.00					MinPts
	6999.10	32.81	6993.72	6966.29	1709.20	MAS = 10.00 (m)	980.00	980.00					MINPT-O-EQU
	7004.54	32.81	6993.91	6971.73	749.96	MAS = 10.00 (m)	2150.00	2149.93					MinPts
	7004.79	32.81	6993.53	6971.98	701.80	MAS = 10.00 (m)	2300.00	2299.45					MINPT-O-EQU
	7005.90	32.81	6993.90	6973.09	653.81	MAS = 10.00 (m)	2470.00	2468.34					MINPT-O-EQU
	7415.82	41.72	7387.57	7374.08	275.03	OSF1.50	6100.00	6074.39					MinPt-O-SF
	7453.82	41.70	7425.60	7412.12	276.55	OSF1.50	6260.00	6234.07					MinPt-O-SF
	7924.41	61.83	7882.77	7862.58	196.31	OSF1.50	8500.00	8474.05					MinPt-O-SF
	2102.71	222.71	1953.80	1880.00	14.24	OSF1.50	16570.00	9060.62					MinPt-CtCt
	2102.94	223.51	1953.51	1879.43	14.19	OSF1.50	16600.00	9061.00					MINPT-O-EQU
	2103.33	224.02	1953.58	1879.32	14.16	OSF1.50	16620.00	9061.26					MinPt-O-ADP
	2122.68	228.73	1969.77	1893.95	13.95	OSF1.50	16860.00	9064.38					MinPt-O-SF
	3083.52	204.53	2946.74	2878.99	22.75	OSF1.50	18833.96	9090.00					TD
Cimarex Parkway B State #1 (Offset) Gas Inc. Only On 10550ft (Def Survey)													
	4721.44	32.81	4720.16	4688.63	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
	4721.19	32.81	4719.87	4688.38	125960.92	MAS = 10.00 (m)	23.00	23.00					MinPt-O-SF
	4721.03	32.81	4719.67	4688.23	57397.10	MAS = 10.00 (m)	60.00	60.00					MinPts
	4721.75	104.53	4651.63	4617.21	68.58	OSF1.50	2050.00	2050.00					MinPt-CtCt
	4723.99	112.14	4648.80	4611.85	63.90	OSF1.50	2210.00	2209.81					MINPT-O-EQU
	4726.87	115.58	4649.39	4611.23	62.02	OSF1.50	2290.00	2289.50					MinPt-O-ADP
	4781.01	170.16	4667.14	4610.85	42.46	OSF1.50	3260.00	3253.11					MINPT-O-EQU
	4801.77	196.38	4670.43	4605.40	36.91	OSF1.50	3790.00	3779.59					MinPt-O-ADP

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	CI-CT (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
4891.47	273.88	4708.43	4617.59	26.91		OSF1.50	5230.00	5210.05				MINPT-O-EQU	
4910.80	299.74	4710.55	4611.03	24.67		OSF1.50	5750.00	5726.61				MinPt-O-ADP	
4938.51	321.97	4723.44	4616.55	23.09		OSF1.50	6370.00	6344.05				MINPT-O-EQU	
2348.36	484.00	2023.27	1862.36	7.29		OSF1.50	12990.00	9010.21				MinPt-CICI	
2346.41	484.16	2023.20	1862.23	7.28		OSF1.50	13010.00	9010.58				MINPT-O-EQU	
2346.50	484.27	2023.22	1862.23	7.28		OSF1.50	13020.00	9010.77				MinPt-O-ADP	
2348.30	484.87	2024.63	1863.43	7.28		OSF1.50	13090.00	9012.07				MinPt-O-SF	
6291.46	483.58	5968.65	5807.88	19.56		OSF1.50	18833.96	9090.00				TD	

Cimarex Parkway State Com #1H (Offset) Gas Inc Only Off 11559ft (Def Survey)													
2639.87	32.81	2638.58	2607.06	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	Pass
2639.57	32.81	2638.24	2606.76	66895.35		MAS = 10.00 (m)	23.00	23.00				MinPt-O-SF	
2639.47	32.81	2638.05	2606.65	29338.43		MAS = 10.00 (m)	50.00	50.00				MinPts	
2639.15	102.60	2570.37	2536.00	39.06		OSF1.50	2020.00	2020.00				MinPt-CICI	
2640.71	107.36	2568.71	2533.35	37.33		OSF1.50	2120.00	2119.96				MINPT-O-EQU	
2642.65	109.76	2569.05	2532.83	36.53		OSF1.50	2170.00	2169.90				MinPt-O-ADP	
3020.91	328.77	2801.30	2692.14	13.83		OSF1.50	6400.00	6374.05				MinPt-CICI	
3021.06	414.34	2744.43	2606.75	10.97		OSF1.50	8030.00	8004.05				MinPt-CICI	
2442.74	466.26	2131.47	1976.48	7.88		OSF1.50	10650.00	8966.52				MinPt-CICI	
2442.74	466.26	2131.45	1976.45	7.88		OSF1.50	10660.00	8966.71				MinPts	
2442.99	466.38	2131.64	1976.61	7.87		OSF1.50	10690.00	8967.27				MinPt-O-SF	
8786.74	468.64	8473.89	8318.10	28.20		OSF1.50	18833.96	9090.00				TD	

Cimarex Parkway B State Com #2 (Offset) Plugged Oil Inc Only Off 2450ft (Def Survey)													
4283.14	32.81	4281.86	4250.34	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	Pass
4283.10	32.81	4281.80	4250.25	619429.84		MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
4283.07	32.81	4281.78	4250.27	929134.63		MAS = 10.00 (m)	20.00	20.00				MINPT-O-EQU	
4283.07	32.81	4281.78	4250.26	N/A		MAS = 10.00 (m)	23.00	23.00				WRP	
4283.07	32.81	4281.71	4250.25	53212.77		MAS = 10.00 (m)	30.00	30.00				MinPts	
4274.40	95.36	4210.39	4179.03	68.14		OSF1.50	1840.00	1840.00				MinPt-CICI	
4271.32	127.96	4185.59	4143.36	50.56		OSF1.50	2570.00	2567.68				MinPts	
4271.34	127.96	4185.60	4143.37	50.56		OSF1.50	2580.00	2577.61				MinPt-O-SF	
6561.23	93.58	6498.43	6467.67	106.61		OSF1.50	12890.00	9007.59				MinPt-CICI	
6561.92	95.42	6497.84	6496.50	104.54		OSF1.50	12940.00	9009.27				MINPT-O-EQU	
6562.62	96.25	6498.02	6496.37	103.64		OSF1.50	12980.00	9010.02				MinPt-O-ADP	
7819.67	170.74	7705.42	7648.94	69.21		OSF1.50	17130.00	9067.88				MinPt-O-SF	
8861.37	186.70	8736.47	8674.67	71.68		OSF1.50	18833.96	9090.00				TD	

Western Oil Fields State A #1 (Offset) Plugged Oil Blind Off 2525ft (Def Survey)													
4278.18	32.81	4276.90	4245.37	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	Pass
4277.96	32.81	4276.67	4245.17	155004.25		MAS = 10.00 (m)	23.00	23.00				MinPt-O-SF	
4277.90	599.15	3878.04	3678.75	10.73		OSF1.50	2000.00	2000.00				MinPt-CICI	
4303.17	811.03	3762.05	3492.14	7.97		OSF1.50	2680.00	2676.95				MinPts	
6649.47	262.73	6473.83	6386.74	38.14		OSF1.50	12540.00	9001.81				MinPts	
6649.47	262.73	6473.89	6386.74	38.14		OSF1.50	12550.00	9001.99				MinPt-CICI	
8912.56	585.35	8521.89	8327.21	22.85		OSF1.50	18510.00	9085.80				MinPt-O-SF	
9131.22	598.99	8731.47	8532.24	22.91		OSF1.50	18833.96	9090.00				TD	

Stat Kelly G Dunnigan State #2 (Offset) Plugged Oil Blind Off 2332ft (Def Survey)													
5974.10	32.81	5972.82	5941.30	N/A		MAS = 10.00 (m)	0.00	0.00				Surface	Pass
5973.96	32.81	5972.66	5941.15	314384.86		MAS = 10.00 (m)	23.00	23.00				WRP	
5973.91	599.46	5973.84	5374.45	14.98		OSF1.50	2000.00	2000.00				MinPt-CICI	
5978.76	718.59	5499.27	5260.17	12.50		OSF1.50	2390.00	2378.94				MINPT-O-EQU	
5978.99	718.92	5499.28	5260.07	12.49		OSF1.50	2390.00	2388.87				MinPts	
6798.07	193.08	6668.92	6604.99	53.16		OSF1.50	14560.00	9034.53				MinPt-CICI	
6798.29	193.58	6668.81	6604.71	53.02		OSF1.50	14610.00	9035.18				MINPT-O-EQU	
6798.73	194.08	6668.92	6604.65	52.88		OSF1.50	14690.00	9035.70				MinPt-O-ADP	
8032.50	435.76	7741.56	7596.73	27.73		OSF1.50	18833.96	9090.00				MinPt-O-SF	