

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

HOBBS OCD

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

JUN 16 2014

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM0559539
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: DEYSI FAVELA E-Mail: dfavela@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1964	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T23S R32E NWNE 330FNL 2310FEL 32.165479 N Lat, 103.414425 W Lon		8. Well Name and No. JAMES 29 FEDERAL 38
		9. API Well No. 30-025-41852-00-X1
		10. Field and Pool, or Exploratory SAND DUNES
		11. County or Parish, and State LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex Energy respectfully requests changes to the APD:

BHL Move
Approved:
BHL 330' FSL & 2310' FEL
KOP 8923'
EOC 9673'
MD 13819'
TVD 9400'
PH None

Original COAs still stand

14. I hereby certify that the foregoing is true and correct. Electronic Submission #246326 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by LINDA JIMENEZ on 05/22/2014 (14LJ0175SE)	
Name (Printed/Typed) DEYSI FAVELA	Title DRILLING TECHNICIAN
Signature (Electronic Submission)	Date 05/20/2014
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office _____
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.	

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

JUN 17 2014

Additional data for EC transaction #246326 that would not fit on the form

32. Additional remarks, continued

Proposed:
BHL 330 FSL & 2420' FEL
KOP 8923'
EOC 9673'
MD 13819'
TVD 9400'

HOBBS OCD

JUN 16 2014

DISTRICT I

1825 N. French Dr., Hobbs, NM 88240

Phone (505) 883-8161 Fax: (505) 883-0720

DISTRICT II

811 S. First St., Artesia, NM 88210

Phone (505) 746-1263 Fax: (505) 746-0720

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

Phone (505) 834-8178 Fax: (505) 834-8170

DISTRICT IV

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

Phone (505) 476-2400 Fax: (505) 476-3182

RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41852	Pool Code	Pool Name Sand Dunes; Bone Spring, South
Property Code	Property Name JAMES 29 FEDERAL	Well Number 38
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3689

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	23 S	32 E		330	NORTH	2310	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	29	23 S	32 E		330	SOUTH	2420	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

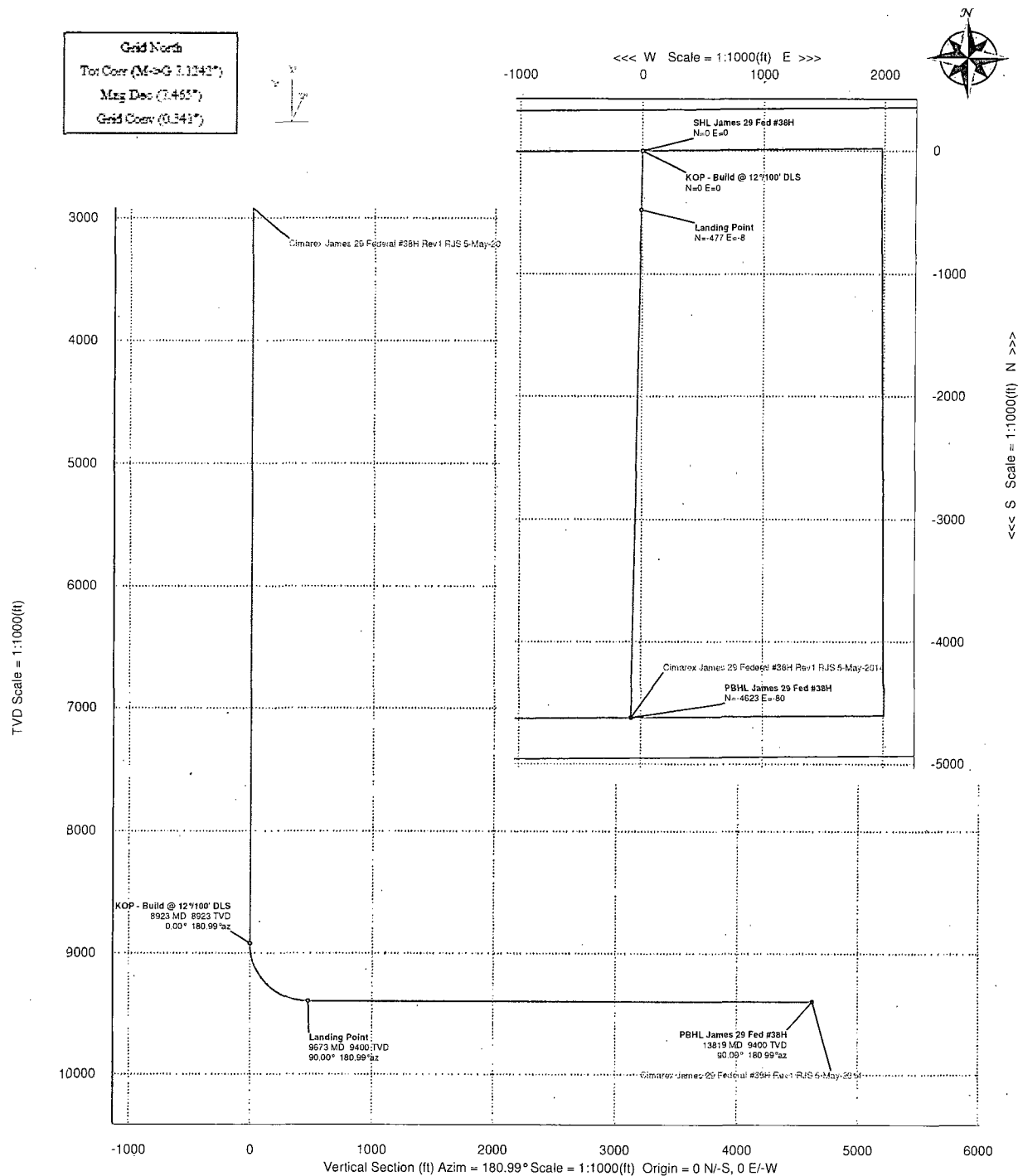
N: 467179.8 E: 735457.4 NAD83 N: 407201.8 E: 738092.1 NAD83 N: 407228.3 E: 740727.6 NAD83 N: 461896.6 E: 735489.8 NAD83 N: 461943.0 E: 740762.3 NAD83 SURFACE LOCATION Lat - N 32°16'54.79" Long - W 103°41'44.25" NAD83 E 738420.5 (NAD-83) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°16'09.11" Long - W 103°41'45.43" NAD83 E 738340.3 (NAD-83)	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. <i>[Signature]</i> 5/20/2014 Signature Date Deysi Favela Printed Name dfavela@cimarex.com Email Address 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. SEPTEMBER 4 2013 Date Surveyed Signature of Professional Surveyor Professional Surveyor 7977 Certification No. 66476 Jones 7977 FACED BY DEYSI 0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 29277
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Cimarex

PATHFINDER
A Schlumberger Company

WELL	James 29 Federal #38H		FIELD	NM Lea County		STRUCTURE	TBD	
Magnetic Parameters	Dip	00.113°	Date	October 29, 2013	Surface Location	NADE2 New Mexico State Plane Eastern Zone US Feet	Miscellaneous	
Model	BGM 2012	Mag Dec	7.453°	FC	43552.201	Lat: N 32 16.54 853 Lon: W 102 41.44 134	Station	James 29 Federal #38H
						Northing: 448675.20 RJIS	Grid Cont.	0.241°
						Eastng: 738409.50 RJIS	Scale Fact:	0.9995558
							Plan:	Rev1 RJIS 5-May-2014
								TVD Ref: Ground Level (Mean above MSL)
								Sky Date: October 29, 2013



Critical Points

Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL James 29 Fed #38H	0.00	0.00	180.99	0.00	0.00	0.00	0.00	
KOP - Build @ 12°/100' DLS	8922.54	0.00	180.99	8922.54	0.00	0.00	0.00	0.00
Landing Point	9672.54	90.00	180.99	9400.00	477.46	-477.39	-8.28	12.00
PBHL James 29 Fed #38H	13818.99	90.00	180.99	9400.00	4623.92	-4623.22	-80.20	0.00



Cimarex James 29 Federal #38H Rev1 RJS 5-May-2014 Proposal Report



(Non-Def Plan)

Report Date: May 05, 2014 - 03:18 PM
 Client: Cimarex
 Field: NM Lea County (NAD 83)
 Structure / Slot: TBD / James 29 Federal #38H
 Well: James 29 Federal #38H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Cimarex James 29 Federal #38H Rev1 RJS 5-May-2014
 Survey Date: October 29, 2013
 Tort / AHD / DDI / ERD Ratio: 90,000' / 4623.920 ft / 5.787 / 0.492
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 54.85344", W 103° 41' 44.17441"
 Location Grid N/E Y/X: N 466875.200 RJS, E 738420.500 RJS
 CRS Grid Convergence Angle: 0.3406°
 Grid Scale Factor: 0.99995358

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 180.994° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: Ground Level
 TVD Reference Elevation: 3689.000 ft above MSL
 Seabed / Ground Elevation: 3689.000 ft above MSL
 Magnetic Declination: 7.465°
 Total Gravity Field Strength: 998.4547mgn (9.80665 Based)
 Total Magnetic Field Strength: 48358.178 nT
 Magnetic Dip Angle: 60.113°
 Declination Date: October 29, 2013
 Magnetic Declination Model: BGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.3406°
 Total Corr Mag North->Grid North: 7.1242°
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
SHL James 29 Fed #38H	0.00	0.00	180.99	0.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	N/A
	100.00	0.00	180.99	100.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	200.00	0.00	180.99	200.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	300.00	0.00	180.99	300.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	400.00	0.00	180.99	400.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	500.00	0.00	180.99	500.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	600.00	0.00	180.99	600.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	700.00	0.00	180.99	700.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	800.00	0.00	180.99	800.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	900.00	0.00	180.99	900.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1000.00	0.00	180.99	1000.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1100.00	0.00	180.99	1100.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1200.00	0.00	180.99	1200.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1300.00	0.00	180.99	1300.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1400.00	0.00	180.99	1400.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1500.00	0.00	180.99	1500.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1600.00	0.00	180.99	1600.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1700.00	0.00	180.99	1700.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1800.00	0.00	180.99	1800.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	1900.00	0.00	180.99	1900.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2000.00	0.00	180.99	2000.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2100.00	0.00	180.99	2100.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2200.00	0.00	180.99	2200.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2300.00	0.00	180.99	2300.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2400.00	0.00	180.99	2400.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2500.00	0.00	180.99	2500.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2600.00	0.00	180.99	2600.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2700.00	0.00	180.99	2700.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2800.00	0.00	180.99	2800.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	2900.00	0.00	180.99	2900.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	Closure (ft)	Closure Azimuth (°)	DLS (*/100ft)
	8500.00	0.00	180.99	8500.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	8600.00	0.00	180.99	8600.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	8700.00	0.00	180.99	8700.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	8800.00	0.00	180.99	8800.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	8900.00	0.00	180.99	8900.00	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
KOP - Build @ 12"/100' DLS	8922.54	0.00	180.99	8922.54	0.00	0.00	0.00	466875.20	738420.50	N 32 16 54.85	W 103 41 44.17	0.00	0.00	0.00
	9000.00	9.30	180.99	8999.66	6.27	-6.27	-0.11	466868.93	738420.39	N 32 16 54.79	W 103 41 44.18	6.27	180.99	12.00
	9100.00	21.30	180.99	9099.94	32.60	-32.60	-0.57	466842.61	738419.93	N 32 16 54.53	W 103 41 44.18	32.60	180.99	12.00
	9200.00	33.30	180.99	9184.65	78.37	-78.36	-1.36	466796.84	738419.14	N 32 16 54.08	W 103 41 44.20	78.37	180.99	12.00
	9300.00	45.30	180.99	9261.69	141.59	-141.57	-2.46	466733.64	738418.04	N 32 16 53.45	W 103 41 44.21	141.59	180.99	12.00
	9400.00	57.30	180.99	9324.31	219.49	-219.45	-3.81	466655.78	738416.69	N 32 16 52.68	W 103 41 44.23	219.49	180.99	12.00
	9500.00	69.30	180.99	9369.17	308.66	-308.61	-5.35	466566.61	738415.15	N 32 16 51.80	W 103 41 44.26	308.66	180.99	12.00
	9600.00	81.30	180.99	9394.51	405.20	-405.14	-7.03	466470.08	738413.47	N 32 16 50.85	W 103 41 44.28	405.20	180.99	12.00
Landing Point	9672.54	90.00	180.99	9400.00	477.46	-477.39	-8.28	466397.83	738412.22	N 32 16 50.13	W 103 41 44.30	477.46	180.99	12.00
	9700.00	90.00	180.99	9400.00	504.92	-504.85	-8.76	466370.38	738411.74	N 32 16 49.86	W 103 41 44.31	504.92	180.99	0.00
	9800.00	90.00	180.99	9400.00	604.92	-604.83	-10.49	466270.40	738410.01	N 32 16 48.87	W 103 41 44.34	604.92	180.99	0.00
	9900.00	90.00	180.99	9400.00	704.92	-704.82	-12.23	466170.42	738408.27	N 32 16 47.88	W 103 41 44.37	704.92	180.99	0.00
	10000.00	90.00	180.99	9400.00	804.92	-804.80	-13.96	466070.44	738406.54	N 32 16 46.89	W 103 41 44.39	804.92	180.99	0.00
	10100.00	90.00	180.99	9400.00	904.92	-904.79	-15.70	465970.46	738404.80	N 32 16 45.90	W 103 41 44.42	904.92	180.99	0.00
	10200.00	90.00	180.99	9400.00	1004.92	-1004.77	-17.43	465870.48	738403.07	N 32 16 44.91	W 103 41 44.45	1004.92	180.99	0.00
	10300.00	90.00	180.99	9400.00	1104.92	-1104.76	-19.17	465770.49	738401.33	N 32 16 43.92	W 103 41 44.47	1104.92	180.99	0.00
	10400.00	90.00	180.99	9400.00	1204.92	-1204.74	-20.90	465670.51	738399.60	N 32 16 42.93	W 103 41 44.50	1204.92	180.99	0.00
	10500.00	90.00	180.99	9400.00	1304.92	-1304.73	-22.64	465570.53	738397.87	N 32 16 41.94	W 103 41 44.53	1304.92	180.99	0.00
	10600.00	90.00	180.99	9400.00	1404.92	-1404.71	-24.37	465470.55	738396.13	N 32 16 40.96	W 103 41 44.56	1404.92	180.99	0.00
	10700.00	90.00	180.99	9400.00	1504.92	-1504.70	-26.10	465370.57	738394.40	N 32 16 39.97	W 103 41 44.58	1504.92	180.99	0.00
	10800.00	90.00	180.99	9400.00	1604.92	-1604.68	-27.84	465270.59	738392.66	N 32 16 38.98	W 103 41 44.61	1604.92	180.99	0.00
	10900.00	90.00	180.99	9400.00	1704.92	-1704.67	-29.57	465170.61	738390.93	N 32 16 37.99	W 103 41 44.64	1704.92	180.99	0.00
	11000.00	90.00	180.99	9400.00	1804.92	-1804.65	-31.31	465070.63	738389.19	N 32 16 37.00	W 103 41 44.66	1804.92	180.99	0.00
	11100.00	90.00	180.99	9400.00	1904.92	-1904.64	-33.04	464970.65	738387.46	N 32 16 36.01	W 103 41 44.69	1904.92	180.99	0.00
	11200.00	90.00	180.99	9400.00	2004.92	-2004.62	-34.78	464870.67	738385.72	N 32 16 35.02	W 103 41 44.72	2004.92	180.99	0.00
	11300.00	90.00	180.99	9400.00	2104.92	-2104.61	-36.51	464770.69	738383.99	N 32 16 34.03	W 103 41 44.75	2104.92	180.99	0.00
	11400.00	90.00	180.99	9400.00	2204.92	-2204.59	-38.25	464670.71	738382.26	N 32 16 33.04	W 103 41 44.77	2204.92	180.99	0.00
	11500.00	90.00	180.99	9400.00	2304.92	-2304.58	-39.98	464570.73	738380.52	N 32 16 32.05	W 103 41 44.80	2304.92	180.99	0.00
	11600.00	90.00	180.99	9400.00	2404.92	-2404.56	-41.72	464470.75	738378.79	N 32 16 31.06	W 103 41 44.83	2404.92	180.99	0.00
	11700.00	90.00	180.99	9400.00	2504.92	-2504.55	-43.45	464370.77	738377.05	N 32 16 30.07	W 103 41 44.85	2504.92	180.99	0.00
	11800.00	90.00	180.99	9400.00	2604.92	-2604.53	-45.18	464270.79	738375.32	N 32 16 29.08	W 103 41 44.88	2604.92	180.99	0.00
	11900.00	90.00	180.99	9400.00	2704.92	-2704.52	-46.92	464170.81	738373.58	N 32 16 28.10	W 103 41 44.91	2704.92	180.99	0.00
	12000.00	90.00	180.99	9400.00	2804.92	-2804.50	-48.65	464070.83	738371.85	N 32 16 27.11	W 103 41 44.94	2804.92	180.99	0.00
	12100.00	90.00	180.99	9400.00	2904.92	-2904.49	-50.39	463970.85	738370.11	N 32 16 26.12	W 103 41 44.96	2904.92	180.99	0.00
	12200.00	90.00	180.99	9400.00	3004.92	-3004.47	-52.12	463870.87	738368.38	N 32 16 25.13	W 103 41 44.99	3004.92	180.99	0.00
	12300.00	90.00	180.99	9400.00	3104.92	-3104.46	-53.86	463770.89	738366.65	N 32 16 24.14	W 103 41 45.02	3104.92	180.99	0.00
	12400.00	90.00	180.99	9400.00	3204.92	-3204.44	-55.59	463670.91	738364.91	N 32 16 23.15	W 103 41 45.04	3204.92	180.99	0.00
	12500.00	90.00	180.99	9400.00	3304.92	-3304.43	-57.33	463570.93	738363.18	N 32 16 22.16	W 103 41 45.07	3304.92	180.99	0.00
	12600.00	90.00	180.99	9400.00	3404.92	-3404.41	-59.06	463470.95	738361.44	N 32 16 21.17	W 103 41 45.10	3404.92	180.99	0.00
	12700.00	90.00	180.99	9400.00	3504.92	-3504.40	-60.79	463370.97	738359.71	N 32 16 20.18	W 103 41 45.13	3504.92	180.99	0.00
	12800.00	90.00	180.99	9400.00	3604.92	-3604.38	-62.53	463270.99	738357.97	N 32 16 19.19	W 103 41 45.15	3604.92	180.99	0.00
	12900.00	90.00	180.99	9400.00	3704.92	-3704.37	-64.26	463171.01	738356.24	N 32 16 18.20	W 103 41 45.18	3704.92	180.99	0.00
	13000.00	90.00	180.99	9400.00	3804.92	-3804.35	-66.00	463071.03	738354.50	N 32 16 17.21	W 103 41 45.21	3804.92	180.99	0.00
	13100.00	90.00	180.99	9400.00	3904.92	-3904.34	-67.73	462971.05	738352.77	N 32 16 16.22	W 103 41 45.23	3904.92	180.99	0.00
	13200.00	90.00	180.99	9400.00	4004.92	-4004.32	-69.47	462871.07	738351.04	N 32 16 15.24	W 103 41 45.26	4004.92	180.99	0.00
	13300.00	90.00	180.99	9400.00	4104.92	-4104.31	-71.20	462771.09	738349.30	N 32 16 14.25	W 103 41 45.29	4104.92	180.99	0.00
	13400.00	90.00	180.99	9400.00	4204.92	-4204.29	-72.94	462671.11	738347.57	N 32 16 13.26	W 103 41 45.31	4204.92	180.99	0.00
	13500.00	90.00	180.99	9400.00	4304.92	-4304.28	-74.67	462571.13	738345.83	N 32 16 12.27	W 103 41 45.34	4304.92	180.99	0.00
	13600.00	90.00	180.99	9400.00	4404.92	-4404.26	-76.41	462471.15	738344.10	N 32 16 11.28	W 103 41 45.37	4404.92	180.99	0.00

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')	Closure (ft)	Closure Azimuth (°)	DLS (ft/100ft)
	13700.00	90.00	180.99	9400.00	4504.92	-4504.25	-78.14	462371.17	738342.38	N 32 16 10.29	W 103 41 45.40	4504.92	180.99	0.00
PBHL James 29	13800.00	90.00	180.99	9400.00	4604.92	-4604.23	-78.87	462271.19	738340.63	N 32 16 9.30	W 103 41 45.42	4604.92	180.99	0.00
Fed #38H	13818.99	90.00	180.99	9400.00	4623.92	-4623.22	-80.20	462252.20	738340.30	N 32 16 9.11	W 103 41 45.43	4623.92	180.99	0.00

Survey Type: Non-Def Plan

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

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	13818.995	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex James 29 Federal #38H Rev1