

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTCarlsbad Field Office
OCD HobbsFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*5. Lease Serial No.
NMNM62924

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHISHOLM ENERGY OPERATING LLC

Contact: JENNIFER ELROD

Email: jelrod@chisholmenergy.com

3a. Address

801 CHERRY STREET SUITE 1200 UNIT 20
FORT WORTH, TX 76102

3b. Phone No. (include area code)

Ph: 817-953-3728

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 1 T21S R32E 150FNL 1338FEL
32.521935 N Lat, 103.624191 W Lon

8. Well Name and No.

MINIS 1 FED COM 2BS 11H

9. API Well No.

30-025-44857-00-X1

10. Field and Pool or Exploratory Area
HAT MESA

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE 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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

****PROD CSG/RIG RELEASE SUNDRY****

11/28/2018-DRILL PROD HOLE TO 18273'TD/10720'TVD

11/30/2018-NOTIFIED BLM OF CMNT/CSG JOB

12/01/2018-RAN 410 JTS OF 5.5" 20#, P-110 BTC CSG SET @ 18260'MD

12/02/2018-PUMPED 452 BBLS (86% SXS) CLASS H LEAD CMNT @ 2.95 YIELD, FOLLOWED BY 403 BBLS (1875 SXS) CLASS H TAIL CMNT @ 1.21 YIELD. NO CEMENT RETURNED TO SURFACE; SPOKE TO PAUL W/BLM REGARDING CMNT JOB

12/03/2018-RIG RELEASED @ 12:00 PM

****PRESSURE TEST AND CBL WILL BE CONDUCTED PRIOR TO COMPLETON OPERATIONS****

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #446762 verified by the BLM Well Information System

For CHISHOLM ENERGY OPERATING LLC, sent to the Hobbs

Committed to AFMSS for processing by PRISCILLA PEREZ on 12/07/2018 (19PP0564SE)

Name (Printed/Typed) JENNIFER ELROD

Title SENIOR REGULATORY TECH

Signature (Electronic Submission)

Date 12/06/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

DYLAN ROSSMANGO
Title PETROLEUM ENGINEER

Date 02/07/2019

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 Hobbs

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.

(Instructions on page 2)

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

Chisholm Minis 1 Fed Com 2BS 11H 0ft to 18273ft Definitive Survey

Geodetic Report

(Def Survey)

Report Date: November 28, 2018 - 07:05 PM
Client: Chisholm Energy Operating, LLC
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Minis 1 Fed Com 2BS 11H / Minis 1 Fed Com 2BS 11H
Well: Minis 1 Fed Com 2BS 11H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Minis 1 Fed Com 2BS 11H 0ft to 18273ft Definitive
Survey Date: November 14, 2018
Tort / AHD / DDI / ERD Ratio: 379.001' / 8302.898 ft / 6.729 / 0.774
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 31' 18.97116", W 103° 37' 27.10342"
Location Grid N/E / X/Y: N 554338.400 RUS, E 759908.800 RUS
CRS Grid Convergence Angle: 0.3813°
Grid Scale Factor: 0.9999638
Version / Patch: 2.10.715.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.540° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 22ft (Nabors M55)
TVD Reference Elevation: 3742.000 ft above MSL
Seabed / Ground Elevation: 3720.000 ft above MSL
Magnetic Declination: 6.749°
Total Gravity Field Strength: 998.4829mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48195.024 nT
Magnetic Dip Angle: 80.403°
Declination Date: November 05, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.3813°
Total Corr Mag North->Grid North: 6.3679°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	554338.40	759908.80	N 32° 31' 18.97"	W 103° 37' 27.10"
	179.00	0.28	338.72	179.00	-0.38	0.38	-0.15	0.15	554338.78	759908.85	N 32° 31' 18.97"	W 103° 37' 27.11"
	325.00	0.53	227.15	325.00	-0.23	0.23	-0.76	0.46	554338.63	759909.04	N 32° 31' 18.97"	W 103° 37' 27.11"
	469.00	0.46	187.97	468.99	0.79	-0.80	-1.33	0.24	554337.60	759908.47	N 32° 31' 18.96"	W 103° 37' 27.12"
	588.00	0.77	198.06	587.99	2.02	-2.03	-1.85	0.27	554336.37	759908.15	N 32° 31' 18.96"	W 103° 37' 27.12"
	781.00	1.00	195.67	780.96	4.87	-4.89	-2.50	0.12	554333.51	759907.30	N 32° 31' 18.92"	W 103° 37' 27.13"
	971.00	1.90	186.61	970.90	9.58	-9.61	-3.31	0.49	554328.79	759906.48	N 32° 31' 18.88"	W 103° 37' 27.14"
	1160.00	0.57	150.83	1159.85	13.52	-13.54	-3.22	0.78	554324.86	759906.58	N 32° 31' 18.84"	W 103° 37' 27.14"
	1349.00	0.74	165.77	1348.84	15.53	-15.55	-2.46	0.13	554322.85	759907.34	N 32° 31' 18.82"	W 103° 37' 27.13"
	1497.00	0.64	187.17	1496.83	17.28	-17.30	-2.33	0.19	554321.10	759907.47	N 32° 31' 18.80"	W 103° 37' 27.13"
	1626.00	0.77	168.98	1625.82	18.84	-18.86	-2.25	0.20	554319.54	759907.55	N 32° 31' 18.78"	W 103° 37' 27.13"
	1816.00	1.00	92.74	1815.78	20.27	-20.27	1.14	0.99	554318.14	759910.94	N 32° 31' 18.77"	W 103° 37' 27.09"
	1911.00	1.29	69.89	1910.74	20.00	-19.97	3.72	0.82	554318.43	759913.52	N 32° 31' 18.77"	W 103° 37' 27.06"
	2006.00	1.37	11.18	2005.72	18.53	-18.49	4.94	1.37	554319.01	759914.74	N 32° 31' 18.79"	W 103° 37' 27.05"
	2101.00	1.19	336.58	2100.70	16.51	-16.47	4.77	0.82	554321.03	759914.57	N 32° 31' 18.81"	W 103° 37' 27.05"
	2196.00	1.80	321.47	2195.67	14.56	-14.53	3.55	0.58	554323.87	759913.35	N 32° 31' 18.83"	W 103° 37' 27.06"
	2291.00	2.12	342.98	2290.62	11.83	-11.81	2.21	0.91	554326.59	759912.01	N 32° 31' 18.85"	W 103° 37' 27.08"
	2385.00	2.14	321.96	2384.56	8.77	-8.77	0.62	0.83	554329.83	759910.42	N 32° 31' 18.88"	W 103° 37' 27.10"
	2480.00	0.72	291.63	2479.53	7.14	-7.15	-1.03	1.64	554331.25	759908.77	N 32° 31' 18.90"	W 103° 37' 27.12"
	2575.00	0.95	349.00	2574.52	6.14	-6.16	-1.73	0.87	554332.24	759908.07	N 32° 31' 18.91"	W 103° 37' 27.12"
	2669.00	1.11	34.90	2668.50	4.63	-4.64	-1.36	0.87	554333.76	759908.44	N 32° 31' 18.93"	W 103° 37' 27.12"
	2764.00	2.30	43.56	2763.48	2.51	-2.51	0.48	1.28	554335.89	759910.28	N 32° 31' 18.95"	W 103° 37' 27.10"
	2859.00	2.16	26.31	2858.39	-0.46	0.48	2.59	0.72	554338.88	759912.39	N 32° 31' 18.98"	W 103° 37' 27.07"
	2954.00	1.41	15.14	2953.34	-3.18	3.21	3.68	0.87	554341.61	759913.48	N 32° 31' 19.00"	W 103° 37' 27.06"
	3048.00	0.81	0.25	3047.32	-4.96	4.99	3.99	0.70	554343.39	759913.79	N 32° 31' 19.02"	W 103° 37' 27.06"
	3143.00	0.79	36.67	3142.32	-6.15	6.19	4.38	0.53	554344.59	759914.18	N 32° 31' 19.03"	W 103° 37' 27.05"
	3238.00	1.23	35.81	3237.30	-7.50	7.54	5.37	0.46	554345.04	759915.17	N 32° 31' 19.05"	W 103° 37' 27.04"
	3333.00	1.11	30.73	3332.28	-9.11	9.16	6.44	0.17	554347.56	759916.24	N 32° 31' 19.06"	W 103° 37' 27.03"
	3427.00	1.51	298.81	3426.26	-10.49	10.54	5.82	2.03	554348.04	759915.82	N 32° 31' 19.08"	W 103° 37' 27.03"
	3522.00	2.20	276.39	3521.21	-11.32	11.34	2.91	1.04	554349.74	759912.71	N 32° 31' 19.08"	W 103° 37' 27.07"
	3617.00	2.25	275.66	3616.14	-11.74	11.73	-0.76	0.06	554350.13	759909.04	N 32° 31' 19.09"	W 103° 37' 27.11"
	3712.00	2.60	264.96	3711.08	-11.76	11.73	-4.76	0.80	554350.13	759905.04	N 32° 31' 19.09"	W 103° 37' 27.16"
	3806.00	2.56	260.32	3804.96	-11.59	11.51	-8.98	0.21	554349.91	759900.82	N 32° 31' 19.09"	W 103° 37' 27.21"
	3901.00	2.31	285.56	3899.88	-12.11	12.00	-12.95	0.77	554350.40	759906.85	N 32° 31' 19.09"	W 103° 37' 27.25"
	3996.00	2.94	285.70	3994.78	-13.31	13.17	-17.14	0.66	554351.57	759802.66	N 32° 31' 19.10"	W 103° 37' 27.30"
	4091.00	3.54	282.57	4089.63	-14.65	14.47	-22.35	0.68	554352.87	759887.45	N 32° 31' 19.12"	W 103° 37' 27.36"
	4186.00	4.38	285.51	4184.40	-16.31	16.08	-28.71	0.91	554354.48	759881.09	N 32° 31' 19.13"	W 103° 37' 27.44"
	4285.00	3.97	286.22	4283.14	-18.33	18.05	-35.64	0.42	554356.45	759874.16	N 32° 31' 19.15"	W 103° 37' 27.52"
	4379.00	2.75	287.69	4376.97	-19.97	19.64	-40.91	1.30	554358.04	759868.89	N 32° 31' 19.17"	W 103° 37' 27.58"
	4474.00	1.46	278.53	4471.91	-20.87	20.52	-44.28	1.40	554358.91	759865.52	N 32° 31' 19.18"	W 103° 37' 27.62"
	4569.00	1.60	265.71	4566.87	-20.97	20.60	-46.80	0.39	554358.99	759863.00	N 32° 31' 19.18"	W 103° 37' 27.65"
	4664.00	2.16	268.72	4661.82	-20.86	20.46	-49.91	0.60	554358.86	759859.89	N 32° 31' 19.18"	W 103° 37' 27.68"
	4758.00	2.68	267.66	4755.74	-20.76	20.33	-53.88	0.58	554358.73	759855.92	N 32° 31' 19.18"	W 103° 37' 27.73"
	4853.00	3.12	274.65	4850.62	-20.92	20.45	-58.68	0.59	554358.84	759851.13	N 32° 31' 19.18"	W 103° 37' 27.79"
	4947.00	1.95	285.67	4944.52	-21.59	21.09	-62.77	1.34	554359.48	759847.04	N 32° 31' 19.18"	W 103° 37' 27.83"
	5041.00	1.72	304.48	5038.48	-22.84	22.32	-65.47	0.68	554360.71	759844.33	N 32° 31' 19.20"	W 103° 37' 27.87"
	5136.00	2.34	305.86	5133.41	-24.81	24.26	-68.21	0.65	554362.66	759841.59	N 32° 31' 19.22"	W 103° 37' 27.90"
	5231.00	2.73	297.16	5228.32	-27.00	26.43	-71.80	0.58	554364.83	759838.00	N 32° 31' 19.24"	W 103° 37' 27.94"
	5326.00	1.48	302.69	5323.26	-28.72	28.12	-74.85	1.33	554366.52	759834.96	N 32° 31' 19.25"	W 103° 37' 27.98"
	5421.00	1.32	295.76	5418.23	-29.88	29.26	-76.86	0.24	554367.66	759832.94	N 32° 31' 19.27"	W 103° 37' 28.00"
	5516.00	1.26	290.20	5513.20	-30.73	30.10	-78.83	0.15	554368.50	759830.97	N 32° 31' 19.27"	W 103° 37' 28.02"
	5611.00	1.36	289.09	5608.18	-31.48	30.83	-80.87	0.11	554369.23	759828.93	N 32° 31' 19.28"	W 103° 37' 28.05"
	5705.00	1.55	284.33	5702.15	-32.17	31.51	-83.16	0.24	554369.91	759826.64	N 32° 31' 19.29"	W 103° 37' 28.07"
	5742.00	1.61	285.84	5739.13	-32.45	31.77	-84.15	0.20	554370.17	759825.66	N 32° 31' 19.29"	W 103° 37' 28.08"
	5796.00	1.88	287.06	5796.11	-32.95	32.27	-85.81	0.48	554370.66	759823.99	N 32° 31' 19.30"	W 103° 37' 28.10"
	5894.00	0.73	156.64	5891.09	-32.86	32.17	-87.06	2.55	554370.57	759822.74	N 32° 31' 19.30"	W 103° 37' 28.12"
	5988.00	1.19	131.13	5985.08	-31.67	30.97	-86.09	0.66	554369.37	759823.72	N 32° 31' 19.28"	W 103° 37' 28.11"
	6083.00	1.22	125.46	6080.06	-30.42	29.74	-84.52	0.13	554368.14	759825.28	N 32° 31' 19.27"	W 103° 37' 28.09"
	6178.00	1.25	134.73	6175.04	-29.09	28.42	-82.96	0.21	554366.82	759826.84	N 32° 31' 19.26"	W 103° 37' 28.07"
	6273.00	1.33	128.63	6270.01	-27.64	26.99	-81.37	0.15	554365.39	759828.43	N 32° 31' 19.24"	W 103° 37' 28.05"
	6368.00	1.09	130.02	6364.99	-26.35	25.71	-79.83	0.25	554364.11	759829.97	N 32° 31' 19.23"	W 103° 37' 28.03"
	6463.00	1.10	131.60	6459.97	-25.15	24.52	-78.46	0.03	554362.92	759831.34	N 32° 31' 19.22"	W 103° 37' 28.02"
	6558.00	1.04	130.37	6554.96	-23.97	23.36	-77.12	0.07	554361.76	759832.68	N 32° 31' 19.21"	W 103° 37' 28.00"
	6650.00	0.90	121.63	6646.94	-23.04	22.44	-75.87	0.22	554360.84	759833.93	N 32° 31' 19.20"	W 103° 37' 27.99"
	6745.00	1.06	140.04	6741.93	-21.97	21.37	-74.67	0.37	554359.77	759835.13	N 32° 31' 19.19"	W 103° 37' 27.97"

...Minis 1 Fed Com 2BS 11H\Original Borehole\Chisholm Minis 1 Fed Com 2BS 11H 0ft to 18273ft Definitive

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ')	Longitude (E/W ° ° ')
	6839.00	0.79	143.12	6835.82	-20.78	20.19	-73.72	0.29	554358.59	759836.08	N 32 31 19.18	W 103 37 27.66
	6934.00	1.12	148.07	6930.91	-19.46	18.88	-72.84	0.36	554357.27	759836.96	N 32 31 19.18	W 103 37 27.65
	7029.00	0.82	153.30	7025.89	-17.98	17.41	-72.01	0.23	554356.81	759837.80	N 32 31 19.15	W 103 37 27.64
	7123.00	0.91	150.84	7119.88	-16.65	16.08	-71.30	0.04	554356.48	759838.50	N 32 31 19.13	W 103 37 27.63
	7218.00	1.51	28.00	7214.87	-17.09	16.53	-70.35	2.28	554354.93	759839.48	N 32 31 19.14	W 103 37 27.62
	7313.00	1.77	26.94	7309.83	-16.49	16.94	-69.00		554357.34	759840.71	N 32 31 19.16	W 103 37 27.61
	7407.00	1.52	32.85	7403.79	-21.82	21.28	-67.78	0.32	554359.88	759842.04	N 32 31 19.19	W 103 37 27.60
	7501.00	1.56	32.85	7497.75	-23.94	23.41	-66.30	0.04	554361.80	759843.41	N 32 31 19.21	W 103 37 27.68
	7505.00	1.60	33.79	7501.72	-28.09	25.57	-64.97	0.05	554363.97	759844.83	N 32 31 19.23	W 103 37 27.68
	7600.00	1.58	36.87	7606.68	-28.19	27.68	-63.40	0.18	554366.08	759846.41	N 32 31 19.25	W 103 37 27.64
	7784.00	1.44	40.41	7780.85	-30.07	29.57	-61.80	0.15	554367.97	759848.00	N 32 31 19.27	W 103 37 27.62
	7878.00	0.67	301.18	7874.64	-31.25	30.78	-61.50	1.79	554369.16	759848.30	N 32 31 19.28	W 103 37 27.62
	7973.00	0.72	288.29	7969.83	-31.73	31.23	-62.55	0.17	554369.83	759847.28	N 32 31 19.28	W 103 37 27.63
	8068.00	0.81	298.62	8062.62	-32.24	31.73	-63.68	0.18	554370.13	759846.12	N 32 31 19.29	W 103 37 27.64
	8161.00	0.77	298.27	8157.61	-32.88	32.36	-64.83	0.04	554370.75	759844.07	N 32 31 19.30	W 103 37 27.68
	8255.00	0.85	316.92	8251.81	-33.69	33.18	-65.88	0.29	554371.56	759843.94	N 32 31 19.30	W 103 37 27.67
	8351.00	0.99	320.35	8347.59	-34.86	34.32	-66.88	0.18	554372.72	759842.92	N 32 31 19.32	W 103 37 27.68
	8445.00	0.86	335.84	8441.58	-36.13	35.59	-67.89	0.30	554373.99	759842.12	N 32 31 19.33	W 103 37 27.69
	8540.00	0.59	317.80	8536.57	-37.15	36.80	-68.31	0.37	554375.00	759841.50	N 32 31 19.34	W 103 37 27.90
	8635.00	0.41	329.22	8631.57	-37.81	37.28	-68.81	0.22	554375.66	759840.99	N 32 31 19.34	W 103 37 27.90
	8730.00	0.15	315.94	8726.57	-38.19	37.64	-69.07	0.28	554376.04	759840.73	N 32 31 19.35	W 103 37 27.91
	8825.00	0.58	129.51	8821.57	-37.97	37.42	-68.78	0.77	554375.82	759841.02	N 32 31 19.35	W 103 37 27.90
	8919.00	1.50	134.95	8915.55	-36.78	36.25	-67.55	0.98	554374.65	759842.26	N 32 31 19.33	W 103 37 27.89
	9014.00	1.46	131.93	9010.52	-35.09	34.58	-65.77	0.98	554372.96	759844.04	N 32 31 19.32	W 103 37 27.87
	9108.00	1.75	155.66	9104.48	-32.97	32.46	-64.28	0.76	554370.86	759845.52	N 32 31 19.30	W 103 37 27.85
	9203.00	0.66	208.32	9199.46	-31.17	30.65	-63.95	1.52	554368.05	759845.86	N 32 31 19.28	W 103 37 27.85
	9297.00	0.68	161.06	9293.46	-30.16	29.65	-64.02	0.57	554368.05	759845.78	N 32 31 19.27	W 103 37 27.84
	9391.00	1.17	154.72	9387.44	-28.76	28.25	-63.43	0.53	554366.85	759846.37	N 32 31 19.25	W 103 37 27.84
	9486.00	0.89	156.45	9482.43	-27.20	26.70	-62.72	0.30	554365.10	759847.08	N 32 31 19.24	W 103 37 27.83
	9580.00	0.78	162.30	9576.42	-25.92	25.42	-62.23	0.15	554363.82	759847.57	N 32 31 19.23	W 103 37 27.83
	9675.00	0.76	152.32	9671.41	-24.74	24.25	-61.75	0.14	554362.65	759848.06	N 32 31 19.22	W 103 37 27.82
	9735.00	0.80	159.96	9731.40	-23.99	23.50	-61.42	0.19	554361.80	759848.39	N 32 31 19.21	W 103 37 27.82
	9785.00	0.39	248.69	9781.40	-23.60	23.11	-61.46	1.76	554361.51	759848.35	N 32 31 19.20	W 103 37 27.82
	9816.00	1.88	290.17	9812.40	-23.75	23.25	-62.03	5.19	554361.85	759847.77	N 32 31 19.21	W 103 37 27.63
	9848.00	4.58	286.62	9844.34	-24.31	23.80	-63.75	8.46	554362.19	759846.05	N 32 31 19.21	W 103 37 27.65
	9879.00	8.25	286.00	9875.14	-25.30	24.76	-67.07	11.84	554363.16	759842.73	N 32 31 19.22	W 103 37 27.68
	9910.00	12.34	285.76	9905.64	-26.86	26.28	-72.40	13.19	554364.68	759837.40	N 32 31 19.24	W 103 37 27.64
	9942.00	17.14	285.36	9936.58	-28.10	28.46	-80.24	15.00	554366.85	759829.56	N 32 31 19.26	W 103 37 28.04
	9974.00	21.17	283.94	9966.80	-31.82	31.10	-90.40	12.88	554369.50	759819.40	N 32 31 19.28	W 103 37 28.16
	10005.00	23.81	278.82	9995.44	-34.22	33.41	-102.02	10.60	554371.80	759807.78	N 32 31 19.31	W 103 37 28.29
	10036.00	26.60	272.76	10023.49	-35.62	34.70	-115.14	12.25	554373.10	759794.66	N 32 31 19.32	W 103 37 28.45
	10068.00	29.45	268.15	10051.74	-35.63	34.79	-130.17	11.18	554373.19	759778.64	N 32 31 19.32	W 103 37 28.62
	10100.00	32.44	265.82	10079.18	-35.09	33.91	-146.59	10.06	554372.31	759763.21	N 32 31 19.32	W 103 37 28.81
	10131.00	34.18	264.52	10105.09	-33.79	32.47	-163.58	6.07	554370.87	759746.25	N 32 31 19.30	W 103 37 29.01
	10163.00	35.81	262.29	10131.30	-31.82	30.38	-181.78	6.47	554368.76	759728.02	N 32 31 19.28	W 103 37 29.22
	10194.00	37.86	259.99	10156.11	-29.09	27.49	-200.14	7.97	554365.89	759708.67	N 32 31 19.26	W 103 37 29.44
	10226.00	40.81	256.67	10180.88	-25.13	23.37	-219.99	11.32	554361.77	759688.82	N 32 31 19.22	W 103 37 29.67
	10257.00	44.18	254.45	10203.72	-20.06	18.14	-240.26	11.90	554366.54	759666.55	N 32 31 19.17	W 103 37 29.91
	10289.00	47.64	254.03	10225.98	-14.00	11.90	-262.38	10.85	554350.20	759647.43	N 32 31 19.11	W 103 37 30.17
	10321.00	51.38	253.50	10246.76	-7.38	5.09	-286.74	11.76	554343.49	759624.07	N 32 31 19.04	W 103 37 30.44
	10352.00	53.36	248.74	10265.69	0.18	2.86	-309.03	11.53	554335.74	759600.70	N 32 31 18.97	W 103 37 30.71
	10384.00	53.67	245.87	10284.72	6.71	-12.38	-332.84	9.77	554326.02	759576.97	N 32 31 18.87	W 103 37 30.99
	10415.00	53.57	242.99	10303.11	20.30	-23.15	-355.35	7.49	554315.25	759554.46	N 32 31 18.77	W 103 37 31.26
	10446.00	53.38	239.71	10321.58	32.06	-35.09	-377.21	6.52	554303.31	759532.61	N 32 31 18.65	W 103 37 31.51
	10478.00	53.65	235.92	10340.59	45.59	-48.79	-398.97	9.56	554289.81	759510.84	N 32 31 18.51	W 103 37 31.77
	10509.00	54.08	233.13	10358.88	58.95	-63.32	-419.36	7.39	554275.08	759490.46	N 32 31 18.37	W 103 37 32.01
	10541.00	54.46	230.75	10377.58	75.80	-79.33	-439.80	6.16	554259.07	759470.01	N 32 31 18.25	W 103 37 32.25
	10573.00	54.68	229.44	10396.13	92.36	-96.06	-459.80	3.41	554242.35	759450.01	N 32 31 18.05	W 103 37 32.48
	10604.00	54.87	227.91	10414.01	108.93	-112.78	-478.82	4.08	554225.63	759431.00	N 32 31 17.89	W 103 37 32.70
	10636.00	55.74	225.95	10432.22	126.74	-130.75	-498.04	5.72	554207.66	759411.78	N 32 31 17.71	W 103 37 32.93
	10667.00	56.93	223.86	10449.41	144.87	-149.02	-514.07	6.80	554189.39	759393.57	N 32 31 17.53	W 103 37 33.14
	10698.00	58.42	221.92	10465.99	163.92	-168.21	-534.25	7.15	554170.19	759375.75	N 32 31 17.34	W 103 37 33.35
	10729.00	59.67	220.29	10481.93	183.81	-188.25	-551.55	6.05	554150.16	759358.28	N 32 31 17.14	W 103 37 33.56
	10761.00	60.76	218.45	10497.63	205.14	-209.72	-569.16	6.04	554128.69	759340.86	N 32 31 16.93	W 103 37 33.77
	10792.00	61.67	217.08	10512.76	226.48	-231.19	-585.80	4.86	554107.22	759324.03	N 32 31 16.72	W 103 37 33.98
	10824.00	63.40	214.91	10527.52	249.32	-254.17	-602.48	8.09	554084.24	759307.34	N 32 31 16.50	W 103 37 34.16
	10855.00	65.67	212.79	10540.84	272.44	-277.41	-618.06	9.58	554061.00	759291.76	N 32 31 16.27	W 103 37 34.34
	10887.00	67.92	209.97	10553.45	297.42	-302.52	-633.37	10.73	554038.89	759276.48	N 32 31 16.02	W 103 37 34.52
	10919.00	70.29	208.23	10564.87	323.42	-328.64	-647.90	8.98	554009.78	759261.92	N 32 31 15.76	W 103 37 34.70
	10950.00	71.97	207.66	10574.89	349.23	-354.55	-661.65	5.69	553983.88	759248.18	N 32 31 15.51	W 103 37 34.86
	10982.00	73.36	206.70	10584.43	376.29	-381.72	-675.60	5.20	553956.69	759234.23	N 32 31 15.24	W 103 37 35.02
	11013.00	74.22	206.91	10593.08	402.75	-408.29	-689.02	2.85	553930.12	759220.80	N 32 31 14.98	W 103 37 35.18
	11045.00	74.31	206.70	10601.76	430.13	-435.78	-702.91	0.69	553902.63	759206.91	N 32 31 14.71	W 103 37 35.35
	11110.00	76.80	205.41	10617.97	486.45	-492.33	-730.56	4.29	553846.09	759179.27	N 32 31 14.45	W 103 37 35.67
	11141.00	77.48	203.33	10624.87	513.87	-519.85	-743.02	6.90	553818.56	759166.80	N 32 31 13.88	W 103 37 35.82
	11173.00	78.57	200.61	10631.61	542.81	-549.89	-754.73	8.99	553789.54	759150.15	N 32 31 13.24	W 103 37 35.96
	11204.00	79.34	197.77	10637.45	571.46	-577.81	-764.73	9.33	553760.81	759145.10	N 32 31 13.31	W 103 37 36.08

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 ° ' ")
	13583.00	87.91	178.82	10867.47	2840.99	-2847.53	-803.36	3.69	551380.98	759106.47	N 32 30 49.88	W 103 37 38.71
	13678.00	87.68	178.87	10871.13	3035.92	-3042.48	-802.28	1.13	551286.06	759107.56	N 32 30 48.92	W 103 37 38.71
	13773.00	87.76	178.07	10874.91	3130.84	-3137.38	-801.40	0.85	551201.14	759108.43	N 32 30 47.98	W 103 37 38.71
	13868.00	87.31	178.86	10878.99	3225.75	-3232.27	-799.68	0.52	551106.25	759110.15	N 32 30 47.04	W 103 37 38.69
	13963.00	86.87	183.09	10883.82	3320.57	-3327.11	-801.30	4.47	551011.41	759108.53	N 32 30 46.10	W 103 37 38.72
	14057.00	87.65	181.91	10888.31	3414.34	-3420.91	-805.39	1.50	550917.92	759104.44	N 32 30 45.18	W 103 37 38.77
	14152.00	88.77	182.06	10891.28	3509.20	-3515.81	-808.68	1.19	550822.73	759101.15	N 32 30 44.24	W 103 37 38.82
	14246.00	89.03	181.15	10893.08	3603.12	-3608.75	-811.31	1.01	550728.78	759098.52	N 32 30 43.31	W 103 37 38.86
	14341.00	88.31	180.18	10894.48	3698.09	-3704.74	-812.40	1.08	550633.80	759097.43	N 32 30 42.37	W 103 37 38.88
	14436.00	89.20	176.38	10895.89	3793.05	-3799.67	-809.53	3.98	550538.88	759100.30	N 32 30 41.43	W 103 37 38.85
	14530.00	88.80	178.30	10897.33	3888.96	-3893.55	-805.17	2.09	550445.00	759104.66	N 32 30 40.50	W 103 37 38.81
	14624.00	89.51	176.91	10898.72	3980.89	-3987.45	-801.24	1.66	550351.10	759108.59	N 32 30 39.57	W 103 37 38.77
	14719.00	89.34	179.61	10899.67	4075.85	-4082.40	-798.38	2.85	550256.16	759111.47	N 32 30 38.63	W 103 37 38.74
	14814.00	90.06	175.80	10700.17	4170.78	-4177.29	-794.39	4.29	550161.27	759115.44	N 32 30 37.69	W 103 37 38.70
	14909.00	89.28	176.95	10700.72	4265.62	-4272.09	-788.22	1.84	550066.48	759121.61	N 32 30 36.75	W 103 37 38.64
	15004.00	88.60	179.97	10702.48	4360.58	-4367.02	-785.68	3.26	549971.54	759124.17	N 32 30 35.81	W 103 37 38.62
	15098.00	90.00	182.33	10703.63	4454.52	-4460.99	-787.55	2.92	549877.58	759122.28	N 32 30 34.88	W 103 37 38.65
	15193.00	90.46	181.47	10703.24	4548.44	-4555.93	-790.70	1.03	549782.64	759119.13	N 32 30 33.94	W 103 37 38.69
	15287.00	90.80	177.88	10702.21	4643.42	-4649.91	-790.17	3.84	549688.67	759119.66	N 32 30 33.01	W 103 37 38.69
	15382.00	89.31	180.51	10702.12	4738.41	-4744.89	-788.83	3.18	549593.69	759121.00	N 32 30 32.07	W 103 37 38.68
	15477.00	88.51	184.22	10703.93	4833.26	-4839.78	-792.75	3.99	549498.81	759117.08	N 32 30 31.14	W 103 37 38.74
	15571.00	89.57	185.38	10705.50	4928.84	-4933.43	-800.62	1.67	549405.16	759109.21	N 32 30 30.21	W 103 37 38.84
	15666.00	90.89	181.36	10705.12	5021.61	-5028.24	-806.20	4.45	549310.35	759103.63	N 32 30 29.27	W 103 37 38.91
	15760.00	90.26	176.99	10704.18	5115.58	-5122.21	-804.85	4.70	549216.39	759104.98	N 32 30 28.34	W 103 37 38.90
	15855.00	89.05	180.39	10704.75	5210.55	-5217.16	-802.67	3.80	549121.44	759107.16	N 32 30 27.40	W 103 37 38.88
	15950.00	89.80	182.80	10705.70	5305.48	-5312.11	-805.32	2.66	549028.49	759104.51	N 32 30 26.46	W 103 37 38.92
	16045.00	90.23	178.68	10705.88	5400.44	-5407.09	-806.55	4.36	548931.52	759103.29	N 32 30 25.52	W 103 37 38.94
	16139.00	89.31	179.20	10706.05	5494.43	-5501.07	-804.81	1.12	548837.54	759105.02	N 32 30 24.59	W 103 37 38.93
	16234.00	90.40	180.74	10706.29	5589.42	-5596.06	-804.76	1.99	548742.55	759105.07	N 32 30 23.65	W 103 37 38.94
	16329.00	90.09	176.62	10705.89	5684.39	-5681.02	-802.57	4.35	548647.60	759107.26	N 32 30 22.71	W 103 37 38.92
	16424.00	89.17	180.02	10706.50	5779.35	-5785.96	-799.78	3.71	548552.66	759110.05	N 32 30 21.77	W 103 37 38.89
	16519.00	89.97	181.54	10707.22	5874.32	-5880.94	-801.08	1.81	548457.68	759108.75	N 32 30 20.83	W 103 37 38.91
	16614.00	89.57	179.59	10707.60	5969.30	-5975.93	-802.01	2.10	548362.70	759107.82	N 32 30 19.90	W 103 37 38.93
	16708.00	89.66	180.64	10708.23	6063.29	-6069.93	-802.20	1.12	548268.70	759107.63	N 32 30 18.97	W 103 37 38.94
	16803.00	89.80	176.99	10708.68	6158.27	-6164.89	-800.24	3.84	548173.74	759109.59	N 32 30 18.03	W 103 37 38.93
	16898.00	89.94	176.54	10708.89	6253.16	-6259.74	-794.88	0.50	548078.90	759114.95	N 32 30 17.09	W 103 37 38.87
	16991.00	89.89	175.70	10709.03	6345.99	-6352.53	-788.58	0.90	547986.12	759121.25	N 32 30 16.17	W 103 37 38.80
	17086.00	89.40	175.59	10709.62	6440.77	-6447.25	-781.37	0.53	547891.40	759128.46	N 32 30 15.23	W 103 37 38.73
	17181.00	89.66	178.32	10710.40	6535.66	-6542.10	-776.32	2.89	547796.55	759133.50	N 32 30 14.29	W 103 37 38.68
	17275.00	89.80	178.61	10711.00	6629.64	-6636.07	-773.81	0.32	547702.59	759136.02	N 32 30 13.36	W 103 37 38.65
	17369.00	89.80	178.52	10711.50	6723.63	-6730.04	-771.45	0.23	547608.62	759138.38	N 32 30 12.43	W 103 37 38.63
	17464.00	89.80	179.16	10711.99	6818.62	-6825.02	-769.53	0.71	547513.65	759140.30	N 32 30 11.49	W 103 37 38.62
	17558.00	89.46	178.40	10712.77	6912.61	-6918.99	-767.53	0.82	547419.67	759142.30	N 32 30 10.56	W 103 37 38.60
	17652.00	89.57	177.30	10713.56	7006.56	-7012.92	-764.00	1.18	547325.75	759145.83	N 32 30 9.63	W 103 37 38.57
	17747.00	89.48	178.60	10714.35	7101.52	-7107.85	-760.60	1.37	547230.82	759149.23	N 32 30 8.69	W 103 37 38.54
	17842.00	89.11	182.05	10715.52	7196.49	-7202.83	-761.14	3.65	547135.85	759148.69	N 32 30 7.75	W 103 37 38.55
	18030.00	89.11	181.35	10718.44	7384.33	-7390.72	-766.72	0.37	546947.96	759143.11	N 32 30 5.89	W 103 37 38.63
	18125.00	89.74	180.62	10719.39	7479.29	-7485.70	-768.35	1.01	546852.98	759141.48	N 32 30 4.95	W 103 37 38.66
	18173.00	89.51	180.33	10719.71	7527.29	-7533.70	-768.75	0.77	546804.99	759141.08	N 32 30 4.48	W 103 37 38.66
Proj. to TD	18273.00	89.51	180.33	10720.56	7627.27	-7633.70	-769.33	0.00	546705.00	759140.50	N 32 30 3.49	W 103 37 38.68

Survey Type: Non-Def Survey

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

Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	22.000	1/98.425	30.000	30.000	NAL_MWD-NON_SLB-Depth Only	Original Borehole / Chisholm Minis 1 Fed Com 2BS 11H Off to 18273ft Definitive
	1	22.000	22.000	Act Stns	30.000	30.000	NAL_MWD-NON_SLB-Depth Only	Original Borehole / Chisholm Minis 1 Fed Com 2BS 11H Off to 18273ft Definitive
	1	22.000	11708.000	Act Stns	30.000	30.000	NAL_MWD-NON_SLB	Original Borehole / Chisholm Minis 1 Fed Com 2BS 11H Off to 18273ft
	1	11708.000	18273.000	Act Stns	30.000	30.000	NAL_MWD_1.0_DEG	Original Borehole / Chisholm Minis 1 Fed Com 2BS 11H Off to 18273ft

...Minis 1 Fed Com 2BS 11H\Original Borehole\Chisholm Minis 1 Fed Com 2BS 11H Off to 18273ft Definitive