

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

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

WELL API NO. 30-015-45776
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name SALT DRAW 10 STATE COM 3BS
8. Well Number 4H
9. OGRID Number 372137
10. Pool name or Wildcat SAN LORENZO; BONE SPRING

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 ☐ NM OIL CONSERVATION ARTESIA DISTRICT	
2. Name of Operator CHISHOLM ENERGY OPERATING, LLC MAR 15 2019	
3. Address of Operator 801 CHERRY STREET, SUITE 1200 FORT WORTH, TX 76102 RECEIVED	
4. Well Location Unit Letter A : 260 feet from the NORTH line and 1260 feet from the EAST line Section 10 Township 25S Range 28E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2977.7	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐	REVISE SHL ☐		
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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.

03/15/2019- SURFACE HOLE CHANGE
FROM: 260' FNL & 1290' FEL
TO: 260' FNL & 1260' FEL

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 Jennifer Elrod TITLE SR. REGULATORY ANALYST DATE 03/15/2019

Type or print name JENNIFER ELROD E-mail address: jelrod@chisholmenergy.com PHONE: 817-953-3728

For State Use Only

APPROVED BY: Raymond A. Rodary TITLE Geologist DATE 3-20-19
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
ARTESIA DISTRICT
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT
REVISED SHL

MAR 15 2019

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45776	² Pool Code 53600	³ Pool Name SAN LORENZO; BONE SPRING
⁴ Property Code 325123	⁵ Property Name SALT DRAW 10 STATE COM 3BS	⁶ Well Number 4H
⁷ OGRID No. 372137	⁸ Operator Name CHISHOLM ENERGY OPERATING, LLC	⁹ Elevation 2977.7

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	10	25 S	28 E		260	NORTH	1260	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	10	25 S	28 E		100	SOUTH	400	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

	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 released 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>Jennifer Elrod</i> 3/15/19 Signature Date JENNIFER ELROD Printed Name JELROD@CHISHOLMENERGY.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. MARCH 15, 2019 Date of Survey <i>Filimon F. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: FILIMON F. JARAMILLO, PLS 12797 SURVEY NO. 5764B
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RWP - 3 - 20 - 19

**NM OIL CONSERVATION
ARTESIA DISTRICT**

Intent ☒ As Drilled ☐

MAR 15 2019

API #

Operator Name: CHISHOLM ENERGY OPERATING, LLC	Property Name: SALT DRAW 10 STATE COM 3BS	Well Number 4H
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Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	10	25S	28E		260	NORTH	1260	EAST	EDDY
Latitude 32.1511371					Longitude 104.0706330				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	10	25S	28E		100	NORTH	400	EAST	EDDY
Latitude 32.1515891					Longitude 104.0678582				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	10	25S	28E		100	SOUTH	400	EAST	EDDY
Latitude 32.1376306					Longitude 104.0677933				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☒ YES

Is this well an infill well? ☐ NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Chisholm Salt Draw 10 State Com 3BS 4H Rev0 BT 12MAR19 Proposal Geodetic Report

(Def Plan)

Report Date: March 14, 2019 - 08:55 PM
Client: Chisholm Energy
Field: NM Eddy County (NAD 83)
Structure / Slot: Chisholm Salt Draw 10 State Com 3BS 4H / Chisholm Salt Draw 10 State Com 3BS 4H
Well: Chisholm Salt Draw 10 State Com 3BS 4H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Salt Draw 10 State Com 3BS 4H Rev0 BT 12MAR19
Survey Date: March 12, 2019
Tort / AHD / DDI / ERD Ratio: 109.115° / 5853.316 ft / 5.987 / 0.615
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 4.09344", W 104° 4' 14.27890"
Location Grid N/E Y/X: N 418818.210 RUS, E 622637.720 RUS
CRS Grid Convergence Angle: 0.1398°
Grid Scale Factor: 0.99991666
Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.630° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 32ft (JDC 12)
TVD Reference Elevation: 3009.700 ft above MSL
Seabed / Ground Elevation: 2977.700 ft above MSL
Magnetic Declination: 7.082°
Total Gravity Field Strength: 998.4559mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47888.040 nT
Magnetic Dip Angle: 59.868°
Declination Date: March 12, 2019
Magnetic Declination Model: HDGM 2019
North Reference: Grid North
Grid Convergence Used: 0.1398°
Total Corr Mag North->Grid North: 6.9425°
Local Coord Referenced To: Well Head

NM OH CONSERVATION
ARTS AND CRAFTS
MAR 15 2019

RECEIVED

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	0.00	0.00	169.38	0.00	0.00	0.00	0.00	N/A	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	100.00	0.00	70.58	100.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	200.00	0.00	70.58	200.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	300.00	0.00	70.58	300.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	400.00	0.00	70.58	400.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	500.00	0.00	70.58	500.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	600.00	0.00	70.58	600.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	700.00	0.00	70.58	700.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	800.00	0.00	70.58	800.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	900.00	0.00	70.58	900.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	1000.00	0.00	70.58	1000.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	1100.00	0.00	70.58	1100.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	1200.00	0.00	70.58	1200.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
	1300.00	0.00	70.58	1300.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
1400.00	0.00	70.58	1400.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21	
Nudge 1.5° DLS	1500.00	0.00	70.58	1500.00	0.00	0.00	0.00	0.00	418818.21	622637.72	N 32 9 4.09 W 104 4 14.28	418818.21
Hold	1600.00	1.50	70.58	1599.99	-0.43	0.44	1.23	1.50	418818.65	622638.95	N 32 9 4.10 W 104 4 14.26	418818.65
	1700.00	3.00	70.58	1699.91	-1.71	1.74	4.94	1.50	418819.95	622642.66	N 32 9 4.11 W 104 4 14.22	418819.95
	1800.00	4.50	70.58	1799.69	-3.84	3.91	11.11	1.50	418822.12	622648.82	N 32 9 4.13 W 104 4 14.15	418822.12
	1832.99	4.99	70.58	1832.57	-4.73	4.82	13.68	1.50	418823.03	622651.40	N 32 9 4.14 W 104 4 14.12	418823.03
	1900.00	4.99	70.58	1899.32	-6.64	6.76	19.18	0.00	418824.97	622656.90	N 32 9 4.16 W 104 4 14.06	418824.97
	2000.00	4.99	70.58	1968.94	-9.48	9.66	27.39	0.00	418827.86	622665.11	N 32 9 4.18 W 104 4 13.96	418827.86
	2100.00	4.99	70.58	2068.56	-12.32	12.55	35.61	0.00	418830.76	622673.32	N 32 9 4.22 W 104 4 13.86	418830.76
	2200.00	4.99	70.58	2168.18	-15.16	15.44	43.82	0.00	418833.65	622681.53	N 32 9 4.25 W 104 4 13.77	418833.65
	2300.00	4.99	70.58	2267.80	-18.00	18.34	52.03	0.00	418836.55	622689.74	N 32 9 4.27 W 104 4 13.67	418836.55
	2400.00	4.99	70.58	2367.43	-20.84	21.23	60.24	0.00	418839.44	622697.96	N 32 9 4.30 W 104 4 13.58	418839.44
	2500.00	4.99	70.58	2467.05	-23.68	24.13	68.45	0.00	418842.34	622706.17	N 32 9 4.33 W 104 4 13.48	418842.34
	2600.00	4.99	70.58	2566.67	-26.53	27.02	76.66	0.00	418845.23	622714.38	N 32 9 4.36 W 104 4 13.39	418845.23
	2700.00	4.99	70.58	2666.29	-29.37	29.92	84.88	0.00	418848.12	622722.59	N 32 9 4.39 W 104 4 13.29	418848.12
	2800.00	4.99	70.58	2765.91	-32.21	32.81	93.09	0.00	418851.02	622730.80	N 32 9 4.42 W 104 4 13.20	418851.02
	2900.00	4.99	70.58	2865.53	-35.05	35.70	101.30	0.00	418853.91	622739.01	N 32 9 4.44 W 104 4 13.10	418853.91
	3000.00	4.99	70.58	2965.15	-37.89	38.60	109.51	0.00	418856.81	622747.22	N 32 9 4.47 W 104 4 13.00	418856.81
	3100.00	4.99	70.58	3094.77	-40.73	41.49	117.72	0.00	418859.70	622755.43	N 32 9 4.50 W 104 4 12.91	418859.70
	3200.00	4.99	70.58	3194.39	-43.57	44.39	125.93	0.00	418862.59	622763.64	N 32 9 4.53 W 104 4 12.81	418862.59
	3300.00	4.99	70.58	3294.01	-46.41	47.28	134.14	0.00	418865.49	622771.85	N 32 9 4.56 W 104 4 12.72	418865.49
	3400.00	4.99	70.58	3393.63	-49.26	50.18	142.38	0.00	418868.38	622780.06	N 32 9 4.59 W 104 4 12.62	418868.38
	3500.00	4.99	70.58	3493.25	-52.10	53.07	150.57	0.00	418871.28	622788.27	N 32 9 4.61 W 104 4 12.53	418871.28
	3600.00	4.99	70.58	3592.87	-54.94	55.96	158.78	0.00	418874.17	622796.49	N 32 9 4.64 W 104 4 12.43	418874.17
	3700.00	4.99	70.58	3692.49	-57.78	58.86	166.99	0.00	418877.06	622804.70	N 32 9 4.67 W 104 4 12.33	418877.06
	3800.00	4.99	70.58	3792.11	-60.62	61.75	175.20	0.00	418879.96	622812.91	N 32 9 4.70 W 104 4 12.24	418879.96
	3900.00	4.99	70.58	3891.73	-63.46	64.65	183.41	0.00	418882.85	622821.12	N 32 9 4.73 W 104 4 12.14	418882.85
	4000.00	4.99	70.58	3991.35	-66.30	67.54	191.62	0.00	418885.75	622829.33	N 32 9 4.76 W 104 4 12.05	418885.75
	4100.00	4.99	70.58	4090.97	-69.14	70.44	199.84	0.00	418888.64	622837.54	N 32 9 4.79 W 104 4 11.95	418888.64
	4200.00	4.99	70.58	4190.59	-71.99	73.33	208.05	0.00	418891.53	622845.75	N 32 9 4.81 W 104 4 11.86	418891.53
	4300.00	4.99	70.58	4290.21	-74.83	76.23	216.26	0.00	418894.43	622853.96	N 32 9 4.84 W 104 4 11.76	418894.43
	4400.00	4.99	70.58	4389.83	-77.67	79.12	224.47	0.00	418897.32	622862.17	N 32 9 4.87 W 104 4 11.67	418897.32
	4500.00	4.99	70.58	4489.45	-80.51	82.01	232.68	0.00	418900.22	622870.38	N 32 9 4.90 W 104 4 11.57	418900.22
	4600.00	4.99	70.58	4589.07	-83.35	84.91	240.89	0.00	418903.11	622878.59	N 32 9 4.93 W 104 4 11.47	418903.11
	4700.00	4.99	70.58	4688.69	-86.19	87.80	249.11	0.00	418906.01	622886.80	N 32 9 4.96 W 104 4 11.38	418906.01
	4800.00	4.99	70.58	4788.31	-89.03	90.70	257.32	0.00	418908.90	622895.02	N 32 9 4.98 W 104 4 11.28	418908.90
	4900.00	4.99	70.58	4887.93	-91.87	93.59	265.53	0.00	418911.79	622903.23	N 32 9 5.01 W 104 4 11.19	418911.79
	5000.00	4.99	70.58	4987.55	-94.72	96.49	273.74	0.00	418914.69	622911.44	N 32 9 5.04 W 104 4 11.09	418914.69
	5100.00	4.99	70.58	5087.17	-97.56	99.38	281.95	0.00	418917.58	622919.65	N 32 9 5.07 W 104 4 11.00	418917.58
	5200.00	4.99	70.58	5186.79	-100.40	102.27	290.16	0.00	418920.48	622927.86	N 32 9 5.10 W 104 4 10.90	418920.48
	5300.00	4.99	70.58	5286.41	-103.24	105.17	298.37	0.00	418923.37	622936.07	N 32 9 5.13 W 104 4 10.81	418923.37
	5400.00	4.99	70.58	5386.03	-106.08	108.06	306.59	0.00	418926.26	622944.28	N 32 9 5.16 W 104 4 10.71	418926.26
5500.00	4.99	70.58	5485.65	-108.92	110.96	314.80	0.00	418929.16	622952.49	N 32 9 5.18 W 104 4 10.61	418929.16	
5600.00	4.99	70.58	5585.27	-111.76	113.85	323.01	0.00	418932.05	622960.70	N 32 9 5.21 W 104 4 10.52	418932.05	
5700.00	4.99	70.58	5684.89	-114.60	116.75	331.22	0.00	418934.95	622968.91	N 32 9 5.24 W 104 4 10.42	418934.95	
5800.00	4.99	70.58	5784.51	-117.45	119.64	339.43	0.00	418937.84	622977.12	N 32 9 5.27 W 104 4 10.33	418937.84	
5900.00	4.99	70.58	5884.13	-120.29	122.53	347.64	0.00	418940.73	622985.33	N 32 9 5.30 W 104 4 10.23	418940.73	
6000.00	4.99	70.58	5983.75	-123.13	125.43	355.86	0.00	418943.63	622993.54	N 32 9 5.33 W 104 4 10.14	418943.63	
6100.00	4.99	70.58	6083.37	-125.97	128.32	364.07	0.00	418946.52	623001.76	N 32 9 5.35 W 104 4 10.04	418946.52	
6200.00	4.99	70.58	6182.99	-128.81	131.22	372.28	0.00	418949.42	623009.97	N 32 9 5.38 W 104 4 9.95	418949.42	
6300.00	4.99	70.58	6282.61	-131.65	134.11	380.49	0.00	418952.31	623018.18	N 32 9 5.41 W 104 4 9.85	418952.31	
6400.00	4.99	70.58	6382.24	-134.49	137.01	388.70	0.00	418955.20	623026.39	N 32 9 5.44 W 104 4 9.75	418955.20	
6500.00	4.99	70.58	6481.86	-137.33	139.90	396.91	0.00	418958.10	623034.60	N 32 9 5.47 W 104 4 9.66	418958.10	
6600.00	4.99	70.58	6581.48	-140.18	142.79	405.12	0.00	418960.99	623042.81	N 32 9 5.50 W 104 4 9.56	418960.99	
6700.00	4.99	70.58	6681.10	-143.02	145.69	413.34	0.00	418963.89	623051.02	N 32 9 5.53 W 104 4 9.47	418963.89	
6800.00	4.99	70.58	6780.72	-145.86	148.58	421.55	0.00	418966.78	623059.23	N 32 9 5.55 W 104 4 9.37	418966.78	
6900.00	4.99	70.58	6880.34	-148.70	151.48	429.76	0.00	418969.67	623067.44	N 32 9 5.58 W 104 4 9.28	418969.67	
7000.0												

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (m)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (mUS)	Easting (mUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7500.00	4.99	70.58	7478.06	-165.75	168.64	470.03	0.00	418987.04	623116.71	N 32 9 5.75 W 104 4 8.70	
	7600.00	4.99	70.58	7577.68	-168.59	171.74	487.24	0.00	418989.93	623124.02	N 32 9 5.78 W 104 4 8.61	
	7700.00	4.99	70.58	7677.30	-171.43	174.63	495.45	0.00	418992.83	623133.13	N 32 9 5.81 W 104 4 8.51	
	7800.00	4.99	70.58	7776.92	-174.27	177.53	503.66	0.00	418995.72	623141.34	N 32 9 5.84 W 104 4 8.42	
	7900.00	4.99	70.58	7876.54	-177.11	180.42	511.87	0.00	418998.62	623149.55	N 32 9 5.87 W 104 4 8.32	
	8000.00	4.99	70.58	7976.16	-179.95	183.32	520.09	0.00	419001.51	623157.76	N 32 9 5.89 W 104 4 8.22	
	8100.00	4.99	70.58	8075.78	-182.79	186.21	528.30	0.00	419004.40	623165.97	N 32 9 5.92 W 104 4 8.13	
	8200.00	4.99	70.58	8175.40	-185.64	189.10	536.51	0.00	419007.30	623174.18	N 32 9 5.95 W 104 4 8.03	
	8300.00	4.99	70.58	8275.02	-188.48	192.00	544.72	0.00	419010.19	623182.39	N 32 9 5.98 W 104 4 7.94	
	8400.00	4.99	70.58	8374.64	-191.32	194.89	552.93	0.00	419013.09	623190.60	N 32 9 6.01 W 104 4 7.84	
	8500.00	4.99	70.58	8474.26	-194.18	197.79	561.14	0.00	419015.98	623198.82	N 32 9 6.04 W 104 4 7.75	
	8600.00	4.99	70.58	8573.88	-197.00	200.68	569.35	0.00	419018.87	623207.03	N 32 9 6.07 W 104 4 7.65	
	8700.00	4.99	70.58	8673.50	-199.84	203.58	577.57	0.00	419021.77	623215.24	N 32 9 6.09 W 104 4 7.56	
	8800.00	4.99	70.58	8773.12	-202.68	206.47	585.78	0.00	419024.66	623223.45	N 32 9 6.12 W 104 4 7.48	
	8900.00	4.99	70.58	8872.74	-205.52	209.36	593.99	0.00	419027.56	623231.66	N 32 9 6.15 W 104 4 7.38	
KOP - Build and Turn 10° DLS	8912.31	4.99	70.58	8885.00	-205.87	209.72	595.00	0.00	419027.91	623232.67	N 32 9 6.15 W 104 4 7.35	
	9000.00	12.56	103.16	8971.65	-204.89	208.82	607.91	10.00	419027.01	623245.58	N 32 9 6.14 W 104 4 7.20	
	9100.00	22.29	111.25	9066.96	-195.33	199.44	636.25	10.00	419017.64	623273.91	N 32 9 6.05 W 104 4 6.87	
Build and Turn 10° DLS	9127.51	25.00	112.40	9092.15	-191.16	195.34	646.48	10.00	419013.53	623284.15	N 32 9 6.01 W 104 4 6.75	
	9200.00	28.64	126.35	9156.90	-174.82	179.18	674.68	10.00	418997.37	623312.34	N 32 9 5.85 W 104 4 6.43	
	9300.00	35.40	140.35	9241.75	-137.98	142.58	712.56	10.00	418960.78	623350.22	N 32 9 5.49 W 104 4 5.99	
	9400.00	43.29	150.09	9319.10	-85.60	90.43	748.23	10.00	418908.63	623385.88	N 32 9 4.97 W 104 4 5.57	
	9500.00	51.79	157.28	9386.60	-19.27	24.31	780.59	10.00	418842.52	623418.25	N 32 9 4.32 W 104 4 5.20	
	9600.00	60.63	162.89	9442.19	58.98	53.76	808.67	10.00	418764.45	623448.33	N 32 9 3.54 W 104 4 4.87	
	9700.00	69.67	167.60	9484.19	146.79	-141.42	831.62	10.00	418676.80	623469.27	N 32 9 2.67 W 104 4 4.61	
	9800.00	78.83	171.79	9511.31	241.48	-236.01	848.73	10.00	418582.23	623486.38	N 32 9 1.74 W 104 4 4.41	
	9900.00	88.04	175.72	9522.74	340.18	-334.64	859.49	10.00	418483.60	623497.14	N 32 9 0.76 W 104 4 4.29	
Landing Point	9923.47	90.20	176.63	9523.11	363.61	-358.05	861.06	10.00	418460.19	623498.70	N 32 9 0.53 W 104 4 4.27	
	9953.50	90.20	179.63	9523.00	393.62	-388.06	862.04	10.00	418430.18	623499.68	N 32 9 0.23 W 104 4 4.26	
	10000.00	90.20	179.63	9522.84	440.12	-434.56	862.33	0.00	418383.69	623499.98	N 32 8 59.77 W 104 4 4.26	
	10100.00	90.20	179.63	9522.50	540.12	-534.56	862.98	0.00	418283.70	623500.62	N 32 8 58.78 W 104 4 4.26	
	10200.00	90.20	179.63	9522.16	640.12	-634.55	863.62	0.00	418183.71	623501.26	N 32 8 57.79 W 104 4 4.25	
	10300.00	90.20	179.63	9521.82	740.12	-734.55	864.26	0.00	418083.72	623501.90	N 32 8 56.80 W 104 4 4.25	
	10400.00	90.20	179.63	9521.48	840.12	-834.55	864.90	0.00	417983.73	623502.54	N 32 8 55.81 W 104 4 4.24	
	10500.00	90.20	179.63	9521.13	940.12	-934.55	865.54	0.00	417883.74	623503.18	N 32 8 54.82 W 104 4 4.24	
	10600.00	90.20	179.63	9520.79	1040.12	-1034.54	866.18	0.00	417783.75	623503.83	N 32 8 53.84 W 104 4 4.23	
	10700.00	90.20	179.63	9520.45	1140.11	-1134.54	866.82	0.00	417683.77	623504.47	N 32 8 52.85 W 104 4 4.23	
	10800.00	90.20	179.63	9520.11	1240.11	-1234.54	867.46	0.00	417583.78	623505.11	N 32 8 51.86 W 104 4 4.22	
	10900.00	90.20	179.63	9519.77	1340.11	-1334.54	868.10	0.00	417483.79	623505.75	N 32 8 50.87 W 104 4 4.22	
	11000.00	90.20	179.63	9519.42	1440.11	-1434.53	868.74	0.00	417383.80	623506.39	N 32 8 49.88 W 104 4 4.22	
	11100.00	90.20	179.63	9519.08	1540.11	-1534.53	869.38	0.00	417283.81	623507.03	N 32 8 48.89 W 104 4 4.21	
	11200.00	90.20	179.63	9518.74	1640.11	-1634.53	870.02	0.00	417183.82	623507.67	N 32 8 47.90 W 104 4 4.21	
	11300.00	90.20	179.63	9518.40	1740.11	-1734.52	870.67	0.00	417083.83	623508.31	N 32 8 46.91 W 104 4 4.20	
	11400.00	90.20	179.63	9518.06	1840.11	-1834.52	871.31	0.00	416983.84	623508.95	N 32 8 45.92 W 104 4 4.20	
	11500.00	90.20	179.63	9517.72	1940.11	-1934.52	871.95	0.00	416883.86	623509.59	N 32 8 44.93 W 104 4 4.19	
	11600.00	90.20	179.63	9517.37	2040.11	-2034.52	872.59	0.00	416783.87	623510.23	N 32 8 43.94 W 104 4 4.19	
	11700.00	90.20	179.63	9517.03	2140.11	-2134.51	873.23	0.00	416683.88	623510.87	N 32 8 42.95 W 104 4 4.18	
	11800.00	90.20	179.63	9516.69	2240.11	-2234.51	873.87	0.00	416583.89	623511.52	N 32 8 41.96 W 104 4 4.18	
	11900.00	90.20	179.63	9516.35	2340.11	-2334.51	874.51	0.00	416483.90	623512.16	N 32 8 40.97 W 104 4 4.17	
	12000.00	90.20	179.63	9516.01	2440.11	-2434.51	875.15	0.00	416383.91	623512.80	N 32 8 39.98 W 104 4 4.17	
	12100.00	90.20	179.63	9515.66	2540.11	-2534.50	875.79	0.00	416283.92	623513.44	N 32 8 38.99 W 104 4 4.16	
	12200.00	90.20	179.63	9515.32	2640.11	-2634.50	876.43	0.00	416183.93	623514.08	N 32 8 38.00 W 104 4 4.16	
	12300.00	90.20	179.63	9514.98	2740.11	-2734.50	877.07	0.00	416083.94	623514.72	N 32 8 37.01 W 104 4 4.16	
	12400.00	90.20	179.63	9514.64	2840.10	-2834.50	877.72	0.00	415983.96	623515.36	N 32 8 36.02 W 104 4 4.15	
	12500.00	90.20	179.63	9514.30	2940.10	-2934.49	878.36	0.00	415883.97	623516.00	N 32 8 35.03 W 104 4 4.15	
	12600.00	90.20	179.63	9513.96	3040.10	-3034.49	879.00	0.00	415783.98	623516.64	N 32 8 34.05 W 104 4 4.14	
	12700.00	90.20	179.63	9513.61	3140.10	-3134.48	879.64	0.00	415683.99	623517.28	N 32 8 33.06 W 104 4 4.14	
	12800.00	90.20	179.63	9513.27	3240.10	-3234.48	880.28	0.00	415584.00	623517.92	N 32 8 32.07 W 104 4 4.13	
	12900.00	90.20	179.63	9512.93	3340.10	-3334.48	880.92	0.00	415484.01	623518.56	N 32 8 31.08 W 104 4 4.13	
	13000.00	90.20	179.63	9512.59	3440.10	-3434.48	881.56	0.00	415384.02	623519.20	N 32 8 30.09 W 104 4 4.12	
	13100.00	90.20	179.63	9512.25	3540.10	-3534.48	882.20	0.00	415284.03	623519.85	N 32 8 29.10 W 104 4 4.12	
	13200.00	90.20	179.63	9511.91	3640.10	-3634.47	882.84	0.00	415184.05	623520.49	N 32 8 28.11 W 104 4 4.11	
	13300.00	90.20	179.63	9511.56	3740.10	-3734.47	883.48	0.00	415084.06	623521.13	N 32 8 27.12 W 104 4 4.11	
	13400.00	90.20	179.63	9511.22	3840.10	-3834.47	884.12	0.00	414984.07	623521.77	N 32 8 26.13 W 104 4 4.11	
	13500.00	90.20	179.63	9510.88	3940.10	-3934.47	884.77	0.00	414884.08	623522.41	N 32 8 25.14 W 104 4 4.10	
	13600.00	90.20	179.63	9510.54	4040.10	-4034.46	885.41	0.00	414784.09	623523.05	N 32 8 24.15 W 104 4 4.10	
	13700.00	90.20	179.63	9510.20	4140.10	-4134.46	886.05	0.00	414684.10	623523.69	N 32 8 23.16 W 104 4 4.09	
	13800.00	90.20	179.63	9509.85	4240.10	-4234.46	886.69	0.00	414584.11	623524.33	N 32 8 22.17 W 104 4 4.09	
	13900.00	90.20	179.63	9509.51	4340.10	-4334.46	887.33	0.00	414484.12	623524.97	N 32 8 21.18 W 104 4 4.08	
	14000.00	90.20	179.63	9509.17	4440.10	-4434.45	887.97	0.00	414384.13	623525.61	N 32 8 20.19 W 104 4 4.08	
	14100.00	90.20	179.63	9508.83	4540.09	-4534.45	888.61	0.00	414284.15	623526.25	N 32 8 19.20 W 104 4 4.07	
	14200.00	90.20	179.63	9508.49	4640.09	-4634.45	889.25	0.00	414184.16	623526.90	N 32 8 18.21 W 104 4 4.07	
	14300.00	90.20	179.63	9508.15	4740.09	-4734.45	889.89	0.00	414084.17	623527.54	N 32 8 17.22 W 104 4 4.06	
	14400.00	90.20	179.63	9507.80	4840.09	-4834.44	890.53	0.00	413984.18	623528.18	N 32 8 16.23 W 104 4 4.06	
Chisholm Salt Draw 10 State Com 3BS 4H - LTP/PBHL	14477.18	90.20	179.63	9507.54	4917.27	-4911.62	891.03	0.00	413907.01	623528.97	N 32 8 15.47 W 104 4 4.06	

Survey Type: Def Plan

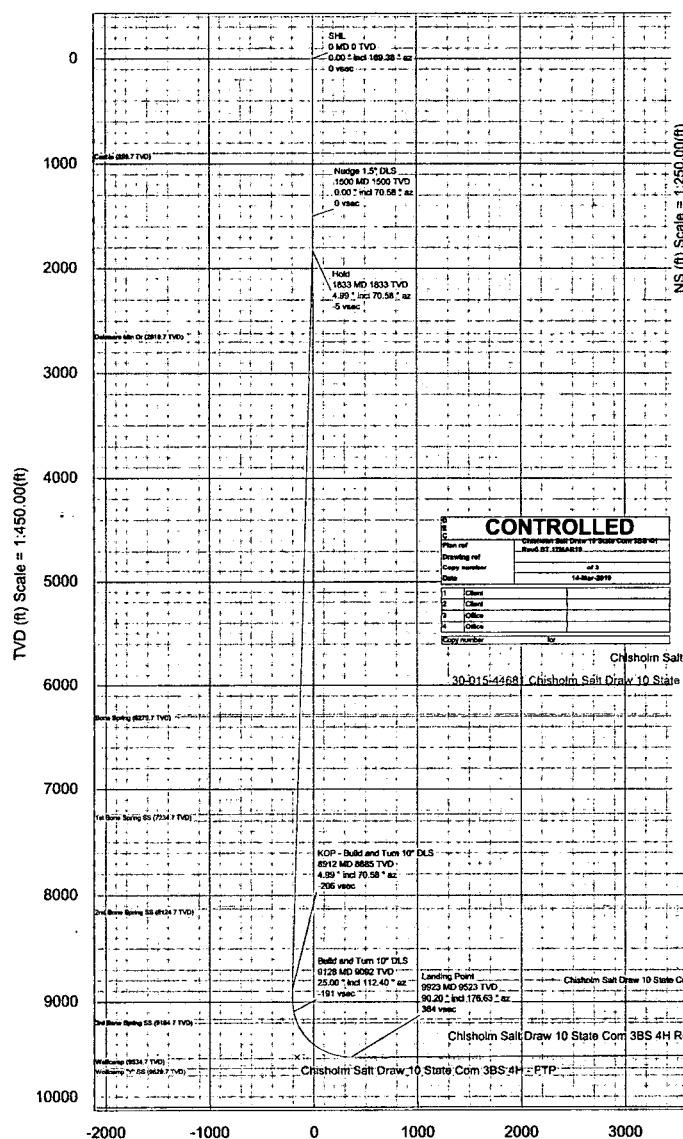
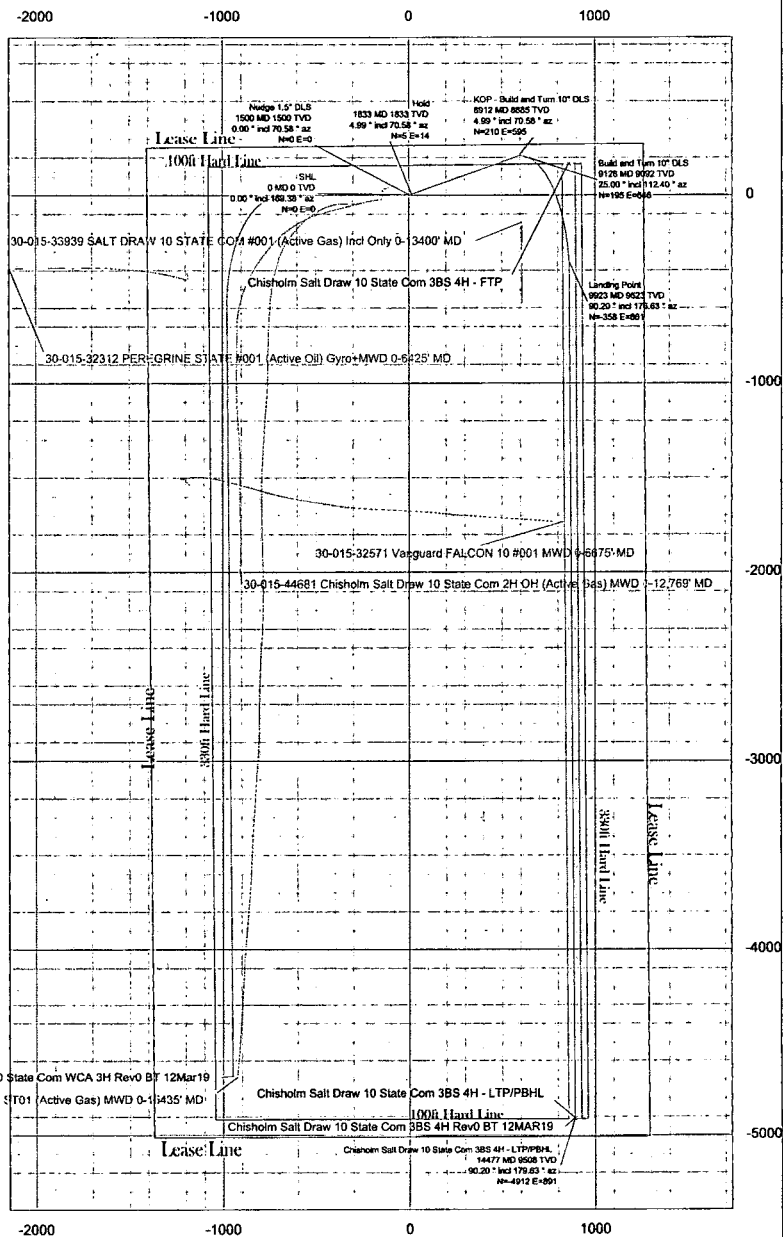
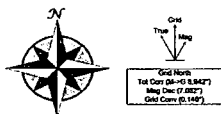
Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7855 sigma
Survey Program:

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	32.000	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG-Depth Only	Original Borehole / Chisholm Salt Draw 10 State Com 3BS 4H Rev0

Borehole:	Well:	Field:	Structure:
Original Borehole	Chisholm Salt Draw 10 State Com 3BS 4H	NM Eddy County (NAD 83)	Chisholm Salt Draw 10 State Com 3BS 4H

Gravity & Magnetic Parameters	Date:	Surface Location	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Location	Well:	TVD Ref:	RKB = 32ft (JOC 12)(3009.7ft above MSL)
Model: HDGM 2019 MagDec: 7.082°	Dip: 59.868° FS: 47898.04mT	12-Mar-2019 Gravity FS: 998.456mgm (9.80665 Based)	Lat: N 32 0 4.09 Lon: W 104 4 14.28	Northings: 418818.2170US Eastings: 622637.7270US	Grid Conv: 0.1388° Scale Fact: 0.99991668	Plan: Chisholm Salt Draw 10 State Com 3BS 4H Rev0 BT 12MAR19	

Critical Points							
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)
SHL	0.00	0.00	169.38	0.00	0.00	0.00	0.00
Castle	899.70	0.00	70.58	899.70	0.00	0.00	0.00
Nudge 1.5" DLS	1500.00	0.00	70.58	1500.00	0.00	0.00	0.00
Hold	1832.98	4.99	70.58	1832.57	-4.73	4.82	13.68
Delaware Mtn Gr	2623.12	4.99	70.58	2619.70	-27.18	27.69	78.58
Bone Spring	6297.07	4.99	70.58	6279.70	-131.57	134.03	380.25
1st Bone Spring SS	7256.71	4.99	70.58	7234.70	-158.81	161.77	458.97
2nd Bone Spring SS	8149.11	4.99	70.58	8124.70	-184.19	187.63	532.33
KOP - Build and Turn 10" DLS	8912.31	4.99	70.58	8885.00	-205.87	209.72	595.00
Build and Turn 10" DLS	9127.51	25.00	112.40	9092.15	-191.16	195.34	648.48
3rd Bone Spring SS	9208.91	29.18	127.82	9164.70	-172.26	176.58	678.12
Landing Point	9523.47	90.20	178.63	9523.11	-363.61	-358.05	861.06
Chisholm Salt Draw 10 State Com 3BS 4H - LTP/ PBHL	14477.18	90.20	178.63	9507.54	-4917.27	-4911.62	891.03
Wolfcamp "Y" SS	NaN			9629.70			
Wolfcamp	NaN			9534.70			



Vertical Section (ft) Azim = 179.63° Scale = 1:450.00(ft) Origin = 0N/-S, 0E/-W