

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 295741

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706		2. OGRID Number 4323
		3. API Number 30-015-48350
4. Property Code 330821	5. Property Name CB MOTHMA 23 14 FEE 10	6. Well No. 401H

7. Surface Location

UL - Lot M	Section 23	Township 23S	Range 28E	Lot Idn	Feet From 929	N/S Line S	Feet From 750	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot C	Section 14	Township 23S	Range 23E	Lot Idn C	Feet From 50	N/S Line N	Feet From 1380	E/W Line W	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3012
16. Multiple N	17. Proposed Depth 20004	18. Formation Wolfcamp	19. Contractor	20. Spud Date 8/1/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	290	226	0
Int1	12.25	9.625	40	2697	606	0
Prod	8.75	7	29	9175	693	2397
Prod	6.125	4.5	11.6	20004	824	8975

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3500	TBD
Blind	10000	5000	TBD
Pipe	10000	5000	TBD
Pipe	10000	5000	TBD

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Electronically filed by Kayla McConnell	Approved By:	Kurt Simmons
Title:	Permitting Specialist	Title:	Petroleum Specialist - A
Email Address:	kaylamcconnell@chevron.com	Approved Date:	5/20/2021
Date:	5/13/2021	Expiration Date:	5/20/2023
Phone:	432-687-7375	Conditions of Approval Attached	

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98220	³ Pool Name PURPLE SAGE WOLFCAMP
⁴ Property Code	⁵ Property Name CB MOTHMA 23-14 FEE 10		⁶ Well Number 401H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.		⁹ Elevation 3012'

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
M	23	23 SOUTH	28 EAST, N.M.P.M.		929'	SOUTH	750'	WEST	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
C	14	23 SOUTH	28 EAST, N.M.P.M.		50'	NORTH	1380'	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill DEFINING	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">PROPOSED BOTTOM HOLE LOCATION</th> </tr> <tr> <td>X= 583,924'</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">NAD 27</td> </tr> <tr> <td>Y= 477,535'</td> </tr> <tr> <td>LAT. 32.312568° N</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">NAD83/86</td> </tr> <tr> <td>LONG. 104.061681° W</td> </tr> <tr> <td>X= 625,107'</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">NAD83/86</td> </tr> <tr> <td>Y= 477,595'</td> </tr> <tr> <td>LAT. 32.312689° N</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">NAD83/86</td> </tr> <tr> <td>LONG. 104.062176° W</td> </tr> </table>	PROPOSED BOTTOM HOLE LOCATION		X= 583,924'	NAD 27	Y= 477,535'	LAT. 32.312568° N	NAD83/86	LONG. 104.061681° W	X= 625,107'	NAD83/86	Y= 477,595'	LAT. 32.312689° N	NAD83/86	LONG. 104.062176° W	Proposed Last Take Point 330' FNL, 1380' FWL 1267' FEL Lease Sec. 14 Proposed Midpoint Sec. 23 Proposed First Take Point 330' FSL, 1380' FWL 1276' FEL Lease																																																										
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GAS CAPTURE PLAN

Date: 5/20/2021

☒ Original

Operator & OGRID No.: [4323] CHEVRON U S A INC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
CB MOTHMA 23 14 FEE 10 #401H	30-015-48350	M-23-23S-28E	0929S 0750W	2200	Flared	Processing plant located in Culberson County, TX (Sec 9, Blk 58 T1S, T&P RR)

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to TARGA MIDSTREAM SERVICES LLC and will be connected to TARGA MIDSTREAM SERVICES LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to High Pressure gathering system. CHEVRON U S A INC provides (periodically) to TARGA MIDSTREAM SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CHEVRON U S A INC and TARGA MIDSTREAM SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at TARGA MIDSTREAM SERVICES LLC Processing Plant located in Sec. 23, Twn. 23S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on TARGA MIDSTREAM SERVICES LLC system at that time. Based on current information, it is CHEVRON U S A INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Conditions

Permit 295741

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CHEVRON U S A INC [4323] 6301 Deauville Blvd Midland, TX 79706	API Number: 30-015-48350
	Well: CB MOTHMA 23 14 FEE 10 #401H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite or salt in order to seal off protectable water
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system



CB Mothma 23-14 Fee 10 401H R0 mdv 22Mar21 Proposal Geodetic Report

(Def Plan)

Report Date:	March 23, 2021 - 11:14 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Chevron	Vertical Section Azimuth:	359.920 ° (Grid North)
Field:	NM Eddy County (NAD 27)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Chevron CB Mothma 23-14 Fee 10 Pad / 401H	TVD Reference Datum:	RKB = 28ft (TBD)
Well:	CB Mothma 23-14 Fee 10 401H	TVD Reference Elevation:	3040.000 ft above MSL
Borehole:	CB Mothma 23-14 Fee 10 401H	Seabed / Ground Elevation:	3012.000 ft above MSL
UWI / API#:	Unknown / Unknown	Magnetic Declination:	6.906 °
Survey Name:	CB Mothma 23-14 Fee 10 401H R0 mdv 22Mar21	Total Gravity Field Strength:	998.4734mgm (9.80665 Based)
Survey Date:	March 22, 2021	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	120.641 ° / 11548.447 ft / 6.460 / 1.194	Total Magnetic Field Strength:	47717.739 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	59.977 °
Location Lat / Long:	N 32° 17' 10.35491", W 104° 3' 49.51057"	Declination Date:	March 22, 2021
Location Grid N/E Y/X:	N 467945.000 RUS, E 583308.000 RUS	Magnetic Declination Model:	HDGM 2020
CRS Grid Convergence Angle:	0.1440 °	North Reference:	Grid North
Grid Scale Factor:	0.99991704	Grid Convergence Used:	0.1440 °
Version / Patch:	2.10.825.0	Total Corr Mag North->Grid North:	6.7620 °
		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 ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	100.00	0.00	144.25	100.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	200.00	0.00	144.25	200.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	300.00	0.00	144.25	300.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	400.00	0.00	144.25	400.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
13 3/8" Casing	450.00	0.00	144.25	450.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	500.00	0.00	144.25	500.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	600.00	0.00	144.25	600.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
Build 1.5"/100ft	650.00	0.00	144.25	650.00	0.00	0.00	0.00	0.00	467945.00	583308.00	N 32 17 10.35	W 104 3 49.51
	700.00	0.75	144.25	700.00	-0.27	-0.27	0.19	1.50	467944.73	583308.19	N 32 17 10.35	W 104 3 49.51
	800.00	2.25	144.25	799.96	-2.39	-2.39	1.72	1.50	467942.61	583309.72	N 32 17 10.33	W 104 3 49.49
	900.00	3.75	144.25	899.82	-6.64	-6.64	4.78	1.50	467938.36	583312.78	N 32 17 10.29	W 104 3 49.46
	1000.00	5.25	144.25	999.51	-13.02	-13.00	9.36	1.50	467932.00	583317.36	N 32 17 10.23	W 104 3 49.40
Castile	1043.39	5.90	144.25	1042.69	-16.44	-16.43	11.82	1.50	467928.58	583319.82	N 32 17 10.19	W 104 3 49.37
	1100.00	6.75	144.25	1098.96	-21.51	-21.49	15.47	1.50	467923.51	583323.47	N 32 17 10.14	W 104 3 49.33
	1200.00	8.25	144.25	1198.10	-32.11	-32.08	23.09	1.50	467912.92	583331.09	N 32 17 10.04	W 104 3 49.24
	1300.00	9.75	144.25	1296.87	-44.82	-44.78	32.23	1.50	467900.23	583340.23	N 32 17 9.91	W 104 3 49.14
	1400.00	11.25	144.25	1395.19	-59.63	-59.57	42.88	1.50	467885.44	583350.88	N 32 17 9.76	W 104 3 49.01
	1500.00	12.75	144.25	1493.00	-76.52	-76.44	55.03	1.50	467868.57	583363.02	N 32 17 9.60	W 104 3 48.87
	1600.00	14.25	144.25	1590.24	-95.48	-95.38	68.67	1.50	467849.62	583376.66	N 32 17 9.41	W 104 3 48.71
Hold	1650.20	15.00	144.25	1638.81	-105.78	-105.67	76.07	1.50	467839.34	583384.07	N 32 17 9.31	W 104 3 48.63
	1700.00	15.00	144.25	1686.91	-116.25	-116.13	83.60	0.00	467828.88	583391.60	N 32 17 9.20	W 104 3 48.54
	1800.00	15.00	144.25	1783.50	-137.28	-137.14	98.73	0.00	467807.87	583406.72	N 32 17 9.00	W 104 3 48.36
	1900.00	15.00	144.25	1880.09	-158.31	-158.15	113.85	0.00	467786.86	583421.84	N 32 17 8.79	W 104 3 48.19
	2000.00	15.00	144.25	1976.69	-179.34	-179.16	128.98	0.00	467765.85	583436.97	N 32 17 8.58	W 104 3 48.01
	2100.00	15.00	144.25	2073.28	-200.37	-200.17	144.10	0.00	467744.85	583452.09	N 32 17 8.37	W 104 3 47.84
	2200.00	15.00	144.25	2169.87	-221.40	-221.18	159.23	0.00	467723.84	583467.21	N 32 17 8.16	W 104 3 47.66
	2300.00	15.00	144.25	2266.46	-242.43	-242.19	174.35	0.00	467702.83	583482.34	N 32 17 7.95	W 104 3 47.49
	2400.00	15.00	144.25	2363.05	-263.46	-263.20	189.48	0.00	467681.82	583497.46	N 32 17 7.75	W 104 3 47.31
	2500.00	15.00	144.25	2459.64	-284.49	-284.21	204.60	0.00	467660.82	583512.58	N 32 17 7.54	W 104 3 47.14
	2600.00	15.00	144.25	2556.23	-305.52	-305.22	219.72	0.00	467639.81	583527.71	N 32 17 7.33	W 104 3 46.96
Lamar	2667.72	15.00	144.25	2621.64	-319.76	-319.44	229.97	0.00	467625.58	583537.95	N 32 17 7.19	W 104 3 46.84
9 5/8" Casing	2697.08	15.00	144.25	2650.00	-325.94	-325.61	234.41	0.00	467619.42	583542.39	N 32 17 7.13	W 104 3 46.79
	2700.00	15.00	144.25	2652.82	-326.55	-326.23	234.85	0.00	467618.80	583542.83	N 32 17 7.12	W 104 3 46.78
Bell Canyon	2702.47	15.00	144.25	2655.21	-327.07	-326.75	235.22	0.00	467618.28	583543.20	N 32 17 7.12	W 104 3 46.78
	2800.00	15.00	144.25	2749.41	-347.58	-347.24	249.97	0.00	467597.79	583557.95	N 32 17 6.91	W 104 3 46.61
	2900.00	15.00	144.25	2846.01	-368.61	-368.24	265.10	0.00	467576.79	583573.08	N 32 17 6.70	W 104 3 46.43
	3000.00	15.00	144.25	2942.60	-389.64	-389.25	280.22	0.00	467555.78	583588.20	N 32 17 6.50	W 104 3 46.26
	3100.00	15.00	144.25	3039.19	-410.67	-410.26	295.35	0.00	467534.77	583603.32	N 32 17 6.29	W 104 3 46.08
	3200.00	15.00	144.25	3135.78	-431.71	-431.27	310.47	0.00	467513.76	583618.45	N 32 17 6.08	W 104 3 45.91
	3300.00	15.00	144.25	3232.37	-452.74	-452.28	325.60	0.00	467492.76	583633.57	N 32 17 5.87	W 104 3 45.73
	3400.00	15.00	144.25	3328.96	-473.77	-473.29	340.72	0.00	467471.75	583648.69	N 32 17 5.66	W 104 3 45.56
	3500.00	15.00	144.25	3425.55	-494.80	-494.30	355.84	0.00	467450.74	583663.81	N 32 17 5.45	W 104 3 45.38
Cherry Canyon	3565.97	15.00	144.25	3489.27	-508.67	-508.16	365.82	0.00	467436.88	583673.79	N 32 17 5.32	W 104 3 45.26
	3600.00	15.00	144.25	3522.14	-515.83	-515.31	370.97	0.00	467423.73	583678.94	N 32 17 5.25	W 104 3 45.20
	3700.00	15.00	144.25	3618.74	-536.86	-536.32	386.09	0.00	467408.73	583694.06	N 32 17 5.04	W 104 3 45.03
	3800.00	15.00	144.25	3715.33	-557.89	-557.33	401.22	0.00	467387.72	583709.18	N 32 17 4.83	W 104 3 44.85
	3900.00	15.00	144.25	3811.92	-578.92	-578.34	416.34	0.00	467366.71	583724.31	N 32 17 4.62	W 104 3 44.68
	4000.00	15.00	144.25	3908.51	-599.95	-599.35	431.47	0.00	467345.71	583739.43	N 32 17 4.41	W 104 3 44.50
	4100.00	15.00	144.25	4005.10	-620.98	-620.35	446.59	0.00	467324.70	583754.55	N 32 17 4.21	W 104 3 44.33
	4200.00	15.00	144.25	4101.69	-642.01	-641.36	461.72	0.00	467303.69	583769.68	N 32 17 4.00	W 104 3 44.15
	4300.00	15.00	144.25	4198.28	-663.04	-662.37	476.84	0.00	467282.68	583784.80	N 32 17 3.79	W 104 3 43.98
Drop .75"/100ft	4315.63	15.00	144.25	4213.38	-666.33	-665.66	479.20	0.00	467279.40	583787.16	N 32 17 3.76	W 104 3 43.95
	4400.00	14.37	144.25	4294.99	-683.70	-683.02	491.70	0.75	467262.04	583799.66	N 32 17 3.58	W 104 3 43.80
	4500.00	13.62	144.25	4392.02	-703.35	-702.64	505.83	0.75	467242.42	583813.79	N 32 17 3.39	W 104 3 43.64
	4600.00	12.87	144.25	4489.36	-721.96	-721.24	519.22	0.75	467223.82	583827.17	N 32 17 3.21	W 104 3 43.48
	4700.00	12.12	144.25	4586.99	-739.54	-738.80	531.86	0.75	467206.27	583839.81	N 32 17 3.03	W 104 3 43.34
	4800.00	11.37	144.25	4684.90	-756.08	-755.32	543.75	0.75	467189.75	583851.71	N 32 17 2.87	W 104 3 43.20
Brushy Canyon	4852.76	10.97	144.25	4736.66	-764.38	-763.61	549.72	0.75	467181.45	583857.68	N 32 17 2.78	W 104 3 43.13
	4900.00	10.62	144.25	4783.06	-771.57	-770.80	554.89	0.75	467174.27	583862.85	N 32 17 2.71	W 104 3 43.07
	5000.00	9.87	144.25	4881.47	-786.02	-785.23	565.29	0.75	467159.84	583873.24	N 32 17 2.57	W 104 3 42.95
	5100.00	9.12	144.25	4980.10	-799.42	-798.62	574.92	0.75	467146.45	583882.88	N 32 17 2.44	W 104 3 42.84
	5200.00	8.37	144.25	5078.93	-811.77	-810.96	583.81	0.75	467134.11	583891.76	N 32 17 2.32	W 104 3 42.73
	5300.00	7.62	144.25	5177.96	-823.07	-822.25	591.93	0.75	467122.82	583899.88	N 32 17 2.20	W 104 3 42.64
	5400.00	6.87	144.25	5277.16	-833.32	-832.48	599.30	0.75	467112.59	583907.25	N 32 17 2.10	W 104 3 42.55
	5500.00	6.12	144.25	5376.52	-842.51	-841.66	605.91	0.75	467103.41	583913.86	N 32 17 2.01	W 104 3 42.48
	5600.00	5.37	144.25	5476.02	-850.64	-849.79	611.76	0.75	467095.29	583919.71	N 32 17 1.93	W 104 3 42.41
	5700.00	4.62	144.25	5575.64	-857.71	-856.85	616.85	0.75	467088.22	583924.79	N 32 17 1.86	W 104 3 42.35
	5800.00	3.87	144.25	5675.36	-863.73	-862.86	621.17	0.75	467082.21	583929.12	N 32 17 1.80	W 104 3 42.30
	5900.00	3.12	144.25	5775.17	-868.68	-867.81	624.73	0.75	467077.27	583932.68	N 32 17 1.75	W 104 3 42.26
	6000.00	2.37	144.25	5875.06	-872.57	-871.70	627.53	0.75	467073.38	583935.48	N 32 17 1.71	W 104 3 42.23
	6100.00	1.62	144.25	5975.00	-875.40	-874.52	629.57	0.75	467070.55	583937.51	N 32 17 1.69	W 104 3 42.20
	6200.00	0.87	144.25	6074.97	-877.16	-876.28	630.84	0.75	467068.79	583938.78	N 32 17 1.67	W 104 3 42.19
	6300.00	0.12	144.25	6174.97	-877.87	-876.99	631.34	0.75	467068.09	583939.29	N 32 17 1.66.	

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 ° ' ")
Avalon Upper	6453.57	0.00	144.25	6328.54	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	6500.00	0.00	144.25	6374.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	6600.00	0.00	144.25	6474.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	6700.00	0.00	144.25	6574.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	6800.00	0.00	144.25	6674.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	6900.00	0.00	144.25	6774.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7000.00	0.00	144.25	6874.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
Avalon Lower	7055.49	0.00	144.25	6930.46	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7100.00	0.00	144.25	6974.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7200.00	0.00	144.25	7074.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7300.00	0.00	144.25	7174.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7400.00	0.00	144.25	7274.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
First Bone Spring	7418.90	0.00	144.25	7293.87	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7500.00	0.00	144.25	7374.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
First Bone Spring Shale	7590.14	0.00	144.25	7465.11	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7600.00	0.00	144.25	7474.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7700.00	0.00	144.25	7574.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7800.00	0.00	144.25	7674.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	7900.00	0.00	144.25	7774.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
Second Bone Spring Upper	7964.78	0.00	144.25	7839.75	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8000.00	0.00	144.25	7874.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8100.00	0.00	144.25	7974.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8200.00	0.00	144.25	8074.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8300.00	0.00	144.25	8174.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8400.00	0.00	144.25	8274.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8500.00	0.00	144.25	8374.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
TB1C	8585.12	0.00	144.25	8460.09	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8600.00	0.00	144.25	8474.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8700.00	0.00	144.25	8574.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8800.00	0.00	144.25	8674.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
Second Bone Spring Lower	8818.06	0.00	144.25	8693.03	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	8900.00	0.00	144.25	8774.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	9000.00	0.00	144.25	8874.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	9100.00	0.00	144.25	8974.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
7" Casing	9175.03	0.00	144.25	9050.00	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	9200.00	0.00	144.25	9074.97	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
KOP, Build 10"/100ft	9209.03	0.00	144.25	9084.00	-877.88	-877.00	631.35	0.00	467068.07	583939.30	N 32 17 1.66 W 104	3 42 18
	9300.00	9.10	359.86	9174.59	-870.67	-869.79	631.33	10.00	467075.28	583939.28	N 32 17 1.73 W 104	3 42 18
Third Bone Spring	9341.17	13.21	359.86	9214.97	-862.71	-861.83	631.31	10.00	467083.24	583939.26	N 32 17 1.81 W 104	3 42 18
	9400.00	19.10	359.86	9271.45	-846.35	-845.47	631.28	10.00	467099.60	583939.22	N 32 17 1.97 W 104	3 42 18
	9500.00	29.10	359.86	9362.62	-805.57	-804.69	631.18	10.00	467140.38	583939.13	N 32 17 2.38 W 104	3 42 18
	9600.00	39.10	359.86	9445.33	-749.58	-748.70	631.05	10.00	467196.36	583938.99	N 32 17 2.93 W 104	3 42 18
	9700.00	49.10	359.86	9517.05	-680.09	-679.21	630.88	10.00	467265.85	583938.83	N 32 17 3.62 W 104	3 42 18
Wolfcamp A	9745.47	53.64	359.86	9545.43	-644.57	-643.69	630.80	10.00	467301.36	583938.75	N 32 17 3.97 W 104	3 42 18
	9800.00	59.10	359.86	9575.62	-599.19	-598.31	630.69	10.00	467346.74	583938.64	N 32 17 4.42 W 104	3 42 18
FTP Cross	9801.50	59.25	359.86	9576.39	-597.90	-597.02	630.69	10.00	467348.03	583938.64	N 32 17 4.43 W 104	3 42 18
	9900.00	69.10	359.86	9619.25	-509.35	-508.47	630.48	10.00	467436.57	583938.43	N 32 17 5.31 W 104	3 42 18
	10000.00	79.10	359.86	9646.61	-413.30	-412.42	630.25	10.00	467532.62	583938.20	N 32 17 6.26 W 104	3 42 18
	10100.00	89.10	359.86	9666.89	-313.95	-313.07	630.02	10.00	467631.95	583937.97	N 32 17 7.24 W 104	3 42 18
Landing Point	10108.68	89.97	359.86	9666.96	-305.27	-304.39	630.00	10.00	467640.63	583937.94	N 32 17 7.33 W 104	3 42 18
	10200.00	89.97	359.86	9657.01	-213.95	-213.08	629.78	0.00	467731.94	583937.73	N 32 17 8.23 W 104	3 42 18
	10300.00	89.97	359.86	9657.07	-113.95	-113.08	629.55	0.00	467831.93	583937.49	N 32 17 9.22 W 104	3 42 18
	10400.00	89.97	359.86	9657.13	-13.95	-13.08	629.31	0.00	467931.93	583937.26	N 32 17 10.21 W 104	3 42 18
WCA_TGT1_CB	10491.18	89.97	359.86	9657.19	77.23	78.11	629.10	0.00	468023.10	583937.01	N 32 17 11.11 W 104	3 42 18
	10500.00	89.97	359.86	9657.20	86.05	86.92	629.07	0.00	468031.92	583937.02	N 32 17 11.20 W 104	3 42 18
	10600.00	89.97	359.86	9657.26	186.05	186.92	628.84	0.00	468131.91	583936.78	N 32 17 12.19 W 104	3 42 18
	10700.00	89.97	359.86	9657.32	286.05	286.92	628.60	0.00	468231.90	583936.55	N 32 17 13.18 W 104	3 42 18
	10800.00	89.97	359.86	9657.38	386.05	386.92	628.37	0.00	468331.89	583936.31	N 32 17 14.17 W 104	3 42 18
	10900.00	89.97	359.86	9657.44	486.05	486.92	628.13	0.00	468431.88	583936.08	N 32 17 15.16 W 104	3 42 18
	11000.00	89.97	359.86	9657.50	586.04	586.92	627.89	0.00	468531.87	583935.84	N 32 17 16.15 W 104	3 42 18
	11100.00	89.97	359.86	9657.56	686.04	686.92	627.66	0.00	468631.86	583935.60	N 32 17 17.14 W 104	3 42 18
	11200.00	89.97	359.86	9657.62	786.04	786.92	627.42	0.00	468731.85	583935.37	N 32 17 18.13 W 104	3 42 18
	11300.00	89.97	359.86	9657.68	886.04	886.92	627.19	0.00	468831.85	583935.13	N 32 17 19.12 W 104	3 42 18
	11400.00	89.97	359.86	9657.74	986.04	986.92	626.95	0.00	468931.84	583934.90	N 32 17 20.11 W 104	3 42 18
	11500.00	89.97	359.86	9657.80	1086.04	1086.92	626.71	0.00	469031.83	583934.66	N 32 17 21.09 W 104	3 42 18
	11600.00	89.97	359.86	9657.86	1186.04	1186.92	626.48	0.00	469131.82	583934.42	N 32 17 22.08 W 104	3 42 18
	11700.00	89.97	359.86	9657.92	1286.04	1286.92	626.24	0.00	469231.81	583934.19	N 32 17 23.07 W 104	3 42 18
	11800.00	89.97	359.86	9657.98	1386.04	1386.92	626.01	0.00	469331.80	583933.95	N 32 17 24.06 W 104	3 42 18
	11900.00	89.97	359.86	9658.05	1486.04	1486.92	625.77	0.00	469431.79	583933.72	N 32 17 25.05 W 104	3 42 18
	12000.00	89.97	359.86	9658.11	1586.04	1586.92	625.53	0.00	469531.78	583933.48	N 32 17 26.04 W 104	3 42 18
	12100.00	89.97	359.86	9658.17	1686.04	1686.92	625.30	0.00	469631.78	583933.24	N 32 17 27.03 W 104	3 42 18
	12200.00	89.97	359.86	9658.23	1786.04	1786.92	625.06	0.00	469731.77	583933.01	N 32 17 28.02 W 104	3 42 18
	12300.00	89.97	359.86	9658.29	1886.04	1886.92	624.83	0.00	469831.76	583932.77	N 32 17 29.01 W 104	3 42 18
	12400.00	89.97	359.86	9658.35	1986.04	1986.92	624.59	0.00	469931.75	583932.54	N 32 17 30.00 W 104	3 42 18
	12500.00	89.97	359.86	9658.41	2086.04	2086.92	624.35	0.00	470031.74	583932.30	N 32 17 30.99 W 104	3 42 18
	12600.00	89.97	359.86	9658.47	2186.04	2186.92	624.12	0.00	470131.73	583932.06	N 32 17 31.98 W 104	3 42 18</

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 ° ' ")
	15200.00	89.81	359.97	9664.82	4786.03	4786.90	618.80	0.00	472731.49	583926.75	N 32 17 57.71 W 104	3 42 16
	15300.00	89.81	359.97	9665.16	4886.03	4886.90	618.75	0.00	472831.49	583926.69	N 32 17 58.70 W 104	3 42 16
	15400.00	89.81	359.97	9665.49	4986.03	4986.90	618.69	0.00	472931.48	583926.64	N 32 17 59.69 W 104	3 42 16
	15500.00	89.81	359.97	9665.82	5086.03	5086.90	618.64	0.00	473031.47	583926.59	N 32 18 0.68 W 104	3 42 15
	15600.00	89.81	359.97	9666.16	5186.03	5186.90	618.58	0.00	473131.46	583926.53	N 32 18 1.67 W 104	3 42 15
	15700.00	89.81	359.97	9666.49	5286.03	5286.90	618.53	0.00	473231.45	583926.48	N 32 18 2.66 W 104	3 42 15
	15800.00	89.81	359.97	9666.83	5386.03	5386.90	618.48	0.00	473331.44	583926.42	N 32 18 3.64 W 104	3 42 15
	15900.00	89.81	359.97	9667.16	5486.03	5486.90	618.42	0.00	473431.43	583926.37	N 32 18 4.63 W 104	3 42 15
	16000.00	89.81	359.97	9667.49	5586.03	5586.90	618.37	0.00	473531.42	583926.32	N 32 18 5.62 W 104	3 42 14
	16100.00	89.81	359.97	9667.83	5686.03	5686.90	618.31	0.00	473631.41	583926.26	N 32 18 6.61 W 104	3 42 14
	16200.00	89.81	359.97	9668.16	5786.03	5786.90	618.26	0.00	473731.40	583926.21	N 32 18 7.60 W 104	3 42 14
	16300.00	89.81	359.97	9668.50	5886.03	5886.90	618.21	0.00	473831.39	583926.15	N 32 18 8.59 W 104	3 42 14
	16400.00	89.81	359.97	9668.83	5986.03	5986.89	618.15	0.00	473931.39	583926.10	N 32 18 9.58 W 104	3 42 13
	16500.00	89.81	359.97	9669.16	6086.03	6086.89	618.10	0.00	474031.38	583926.05	N 32 18 10.57 W 104	3 42 13
	16600.00	89.81	359.97	9669.50	6186.02	6186.89	618.04	0.00	474131.37	583925.99	N 32 18 11.56 W 104	3 42 13
	16700.00	89.81	359.97	9669.83	6286.02	6286.89	617.99	0.00	474231.36	583925.94	N 32 18 12.55 W 104	3 42 13
	16800.00	89.81	359.97	9670.17	6386.02	6386.89	617.94	0.00	474331.35	583925.88	N 32 18 13.54 W 104	3 42 12
	16900.00	89.81	359.97	9670.50	6486.02	6486.89	617.88	0.00	474431.34	583925.83	N 32 18 14.53 W 104	3 42 12
	17000.00	89.81	359.97	9670.83	6586.02	6586.89	617.83	0.00	474531.33	583925.77	N 32 18 15.52 W 104	3 42 12
IFP2. Build 2"/100ft Hold	17049.67	89.81	359.97	9671.00	6635.69	6636.56	617.80	0.00	474581.00	583925.75	N 32 18 16.01 W 104	3 42 12
	17069.98	90.21	359.97	9671.00	6656.00	6656.87	617.79	2.00	474601.30	583925.74	N 32 18 16.21 W 104	3 42 12
	17100.00	90.21	359.97	9671.88	6686.02	6686.89	617.77	0.00	474631.32	583925.72	N 32 18 16.51 W 104	3 42 12
	17200.00	90.21	359.97	9670.51	6786.02	6786.89	617.71	0.00	474731.31	583925.66	N 32 18 17.50 W 104	3 42 12
	17300.00	90.21	359.97	9670.13	6886.02	6886.89	617.65	0.00	474831.30	583925.60	N 32 18 18.49 W 104	3 42 11
	17400.00	90.21	359.97	9669.76	6986.02	6986.89	617.59	0.00	474931.29	583925.54	N 32 18 19.48 W 104	3 42 11
	17500.00	90.21	359.97	9669.38	7086.02	7086.89	617.53	0.00	475031.29	583925.48	N 32 18 20.47 W 104	3 42 11
	17600.00	90.21	359.97	9669.01	7186.02	7186.89	617.47	0.00	475131.28	583925.42	N 32 18 21.46 W 104	3 42 11
	17700.00	90.21	359.97	9668.63	7286.02	7286.89	617.42	0.00	475231.27	583925.36	N 32 18 22.45 W 104	3 42 10
	17800.00	90.21	359.97	9668.26	7386.02	7386.89	617.36	0.00	475331.26	583925.30	N 32 18 23.44 W 104	3 42 10
	17900.00	90.21	359.97	9667.89	7486.02	7486.88	617.30	0.00	475431.25	583925.24	N 32 18 24.42 W 104	3 42 10
	18000.00	90.21	359.97	9667.51	7586.01	7586.88	617.24	0.00	475531.24	583925.19	N 32 18 25.41 W 104	3 42 10
	18100.00	90.21	359.97	9667.14	7686.01	7686.88	617.18	0.00	475631.23	583925.13	N 32 18 26.40 W 104	3 42 09
	18200.00	90.21	359.97	9666.76	7786.01	7786.88	617.12	0.00	475731.22	583925.07	N 32 18 27.39 W 104	3 42 09
	18300.00	90.21	359.97	9666.39	7886.01	7886.88	617.06	0.00	475831.21	583925.01	N 32 18 28.38 W 104	3 42 09
	18400.00	90.21	359.97	9666.01	7986.01	7986.88	617.00	0.00	475931.20	583924.95	N 32 18 29.37 W 104	3 42 09
	18500.00	90.21	359.97	9665.64	8086.01	8086.88	616.94	0.00	476031.19	583924.89	N 32 18 30.36 W 104	3 42 09
	18600.00	90.21	359.97	9665.26	8186.01	8186.88	616.88	0.00	476131.18	583924.83	N 32 18 31.35 W 104	3 42 08
	18700.00	90.21	359.97	9664.89	8286.01	8286.88	616.82	0.00	476231.18	583924.77	N 32 18 32.34 W 104	3 42 08
	18800.00	90.21	359.97	9664.51	8386.01	8386.88	616.76	0.00	476331.17	583924.71	N 32 18 33.33 W 104	3 42 08
	18900.00	90.21	359.97	9664.14	8486.01	8486.88	616.71	0.00	476431.16	583924.65	N 32 18 34.32 W 104	3 42 08
	19000.00	90.21	359.97	9663.76	8586.01	8586.88	616.65	0.00	476531.15	583924.59	N 32 18 35.31 W 104	3 42 07
	19100.00	90.21	359.97	9663.39	8686.01	8686.88	616.59	0.00	476631.14	583924.53	N 32 18 36.30 W 104	3 42 07
	19200.00	90.21	359.97	9663.01	8786.01	8786.88	616.53	0.00	476731.13	583924.48	N 32 18 37.29 W 104	3 42 07
	19300.00	90.21	359.97	9662.64	8886.01	8886.87	616.47	0.00	476831.12	583924.42	N 32 18 38.28 W 104	3 42 07
	19400.00	90.21	359.97	9662.26	8986.00	8986.87	616.41	0.00	476931.11	583924.36	N 32 18 39.27 W 104	3 42 07
	19500.00	90.21	359.97	9661.89	9086.00	9086.87	616.35	0.00	477031.10	583924.30	N 32 18 40.26 W 104	3 42 06
	19600.00	90.21	359.97	9661.51	9186.00	9186.87	616.29	0.00	477131.09	583924.24	N 32 18 41.25 W 104	3 42 06
	19700.00	90.21	359.97	9661.14	9286.00	9286.87	616.23	0.00	477231.08	583924.18	N 32 18 42.24 W 104	3 42 06
LTP Cross	19723.93	90.21	359.97	9661.05	9309.93	9310.80	616.22	0.00	477255.01	583924.17	N 32 18 42.47 W 104	3 42 06
	19800.00	90.21	359.97	9660.76	9386.00	9386.87	616.17	0.00	477331.07	583924.12	N 32 18 43.23 W 104	3 42 06
	19900.00	90.21	359.97	9660.39	9486.00	9486.87	616.11	0.00	477431.06	583924.06	N 32 18 44.22 W 104	3 42 05
	20000.00	90.21	359.97	9660.01	9586.00	9586.87	616.05	0.00	477531.06	583924.00	N 32 18 45.20 W 104	3 42 05
CB Mothma 23-14 Fee 10 401H - BHL	20003.95	90.21	359.97	9660.00	9589.95	9590.81	616.05	0.00	477535.00	583924.00	N 32 18 45.24 W 104	3 42 05

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 97.071% Confidence 3.0000 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	28.000	1/100.000	17.500	13.375		B001Mb_MWD+HRGM-Depth Only	CB Mothma 23-14 Fee 10 401H / CB Mothma 23-14 Fee 10 401H R0 mdv 22Mar21
	1	28.000	450.000	1/100.000	17.500	13.375		B001Mb_MWD+HRGM	CB Mothma 23-14 Fee 10 401H / CB Mothma 23-14 Fee 10 401H R0
	1	450.000	2697.077	1/100.000	12.250	9.625		B001Mb_MWD+HRGM	CB Mothma 23-14 Fee 10 401H / CB Mothma 23-14 Fee 10 401H R0
	1	2697.077	9175.031	1/100.000	8.750	7.000		B001Mb_MWD+HRGM	CB Mothma 23-14 Fee 10 401H / CB Mothma 23-14 Fee 10 401H R0
	1	9175.031	20003.945	1/100.000	6.125	4.500		B001Mb_MWD+HRGM	CB Mothma 23-14 Fee 10 401H / CB Mothma 23-14 Fee 10 401H R0