



Project: Eddy County, NM (NAD-27)
Site: Big Eddy Unit (John Wayne)
Well: MCLINTOCK STATE #105H
Wellbore: Wellbore #1
Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BEU McLintock 105H: SHL (215' FNL & 440' FWL)	0.00	0.00	0.00	524818.10	598718.20	32.442431	-104.013337	Point
BEU McLintock 105H: FTP/LP	7704.00	-185.00	0.60	524833.10	598718.80	32.441923	-104.013337	Point
BEU McLintock 105H: LTP	7734.00	-185.00	0.60	520096.00	598738.60	32.428451	-104.013316	Point
BEU McLintock 105H: PBHL (50' FSL & 440' FWL)	7734.00	-4772.10	20.70	520046.00	598738.90	32.428313	-104.013316	Point

WELL DETAILS: MCLINTOCK STATE #105H

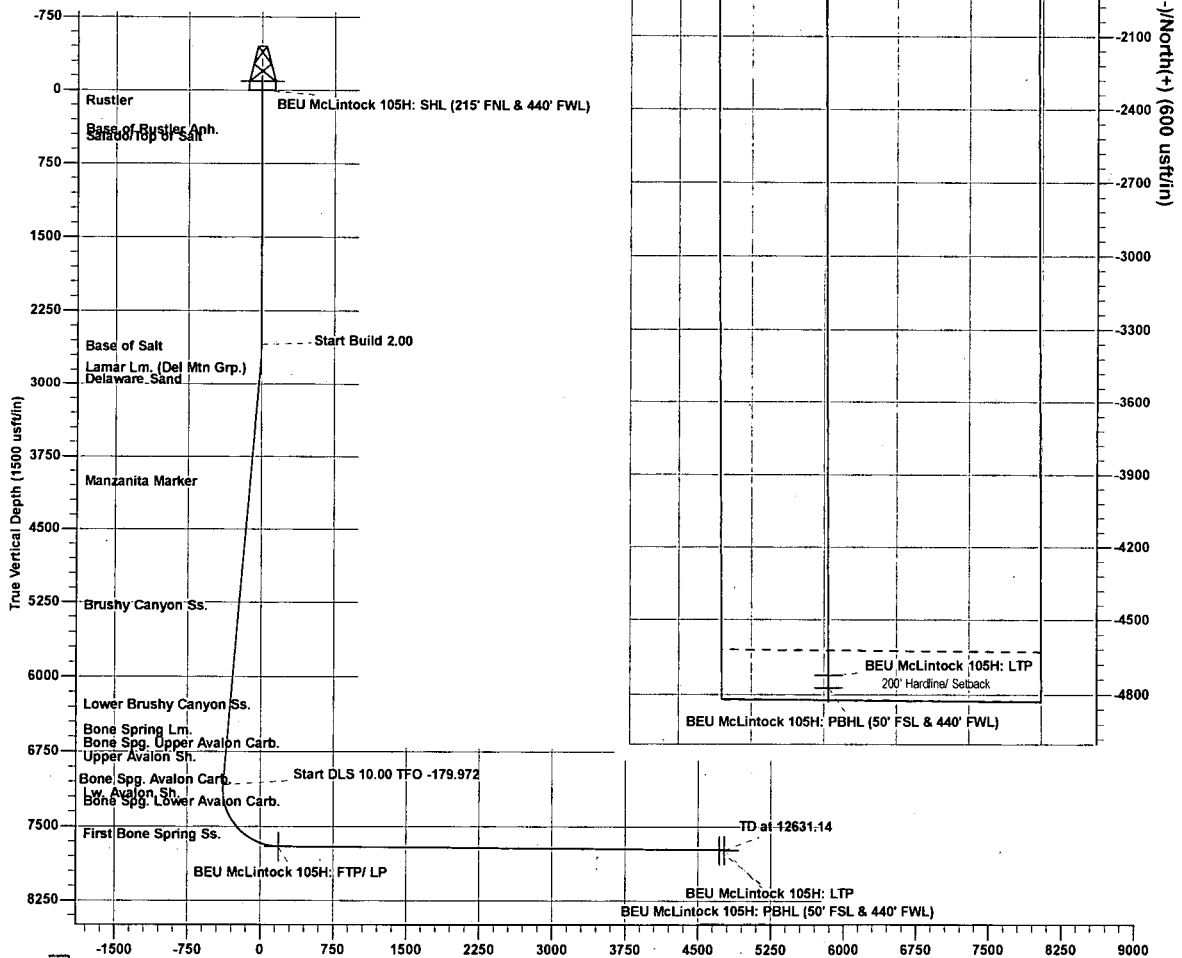
Rig Name: RKB = 25' @ 3317.00usft							
Ground Level: 3292.00							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.00	0.00	524818.10	598718.20	32.442431	-104.013337		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
2	2590.00	0.00	0.00	2590.00	0.00	0.00	0.00	0.000	0.00
3	2840.03	5.00	359.72	2839.72	10.90	-0.05	2.00	359.721	-10.90
4	7097.63	5.00	359.72	7081.11	382.02	-1.86	0.00	0.000	-382.03
5	8043.89	89.63	179.75	7704.00	-185.00	0.60	10.00	-179.972	185.00
6	12581.13	89.63	179.75	7733.67	-4772.10	20.48	0.00	0.000	4772.14
7	12631.14	89.63	179.75	7734.00	-4772.10	20.70	0.00	0.000	4772.14

FORMATION TOP DETAILS

TVDPath	Formation
188.00	Rustler
482.00	Base of Rustler Anh.
553.00	Salado/Top of Salt
2690.00	Base of Salt
2907.00	Lamar Lm. (Del Mtn Grp.)
3027.00	Delaware Sand
4087.00	Manzanita Marker
5365.00	Brushy Canyon Ss.
6359.00	Lower Brushy Canyon Ss.
6650.00	Bone Spring Lm.
6742.00	Avalon Ss.
6777.00	Bone Spg. Upper Avalon Carb.
6842.00	Upper Avalon Sh.
7107.00	Bone Spg. Avalon Carb.
7245.00	Lw. Avalon Sh.
7327.00	Bone Spg. Lower Avalon Carb.
7659.00	First Bone Spring Ss.
7704.00	Landing Point



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the customer.

Vertical Section at 179.75° (1500 usft/in)

Plan: PERMIT (MCLINTOCK STATE #105H Wellbore #1)

Created By: Matthew May Date: 13:37, February 14 2019

BEU McIntock State 10SH
**NM STATE DRILLING PERMITTING
4-string contingency**

0		Deepest TVD		7734		KOP		7081		End of Curve		8044		Measured depth		12631	
Casing Type	Fluid Type	Mud Weight	Hole Size	Casing Size	Casing Grade	Casing Weight	Top MD	Setting Depth	Lead Cement	Tail Cement	Total Sks Cement	TOC					
Surface	FW/Native	8.5 - 10.0	17.5	13.375	J-55 LTC	54.5	0	475	179	237	416	0					
1st Intermediate	Brine	9.0-10.3	12.25	9.625	J-55 LTC	40	0	2800	665	120	785	0					
2nd Intermediate (Contingency*)	FW/Native/OBM	9.0-10.3	8.75	7	P110 BTC	26	0	8044	889	53	943	0					
Production	FW/Cut Brine OBM	9.0-10.5 8.8	6 6	4.5	P110 BTC	13.5	7081	12631	0	663	663	7544					

Max Expected Surface Pressure
1838

BOP
Cameron 5M Double Ram BOP
Test Pressure 5000

Total Vertical Section 4587

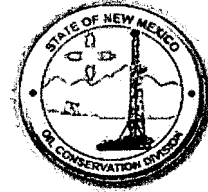
Contingencies

1. Requesting Exception to not get cmt to surface if 7" production string is set. Cement will be brought 500' in Intermediate Shoe if not circulated to surface
2. Should losses be seen from 9-5/8" shoe to landing point, 4-string contingency may be utilized
3. 7" csg may be set between 200' above KOP and Landing Point
4. DV Tool may be set in intermediate fr/ 500' - 2500'
5. 4.5" liner will be brought kick-off point or 300' above end of 7" (Whichever is higher)
6. OBM may be used 8-3/4" hole section
7. XTO requests variance to have the option to batch drill this well. XTO will set 9-5/8" csg, ensure cement is circulated to surface and well is dead. With floats holding, and no flow on annulus, a TA cap will be installed as per GE recommendations. XTO will contact the state before skidding to the other well. Once all surface and intermediate are completed on the pad, XTO will begin drilling the production hole of each well.

7/22/2019

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Receipt of Fee Application Payment



RECEIVED

PO Number: 7HIOK-190722-APD000

JUL 24 2019

DISTRICT II-ARTESIA O.C.D.

Payment Date: 7/22/2019 8:33:39 AM

Payment Amount: \$500.00

Payment Type: Credit Card

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.