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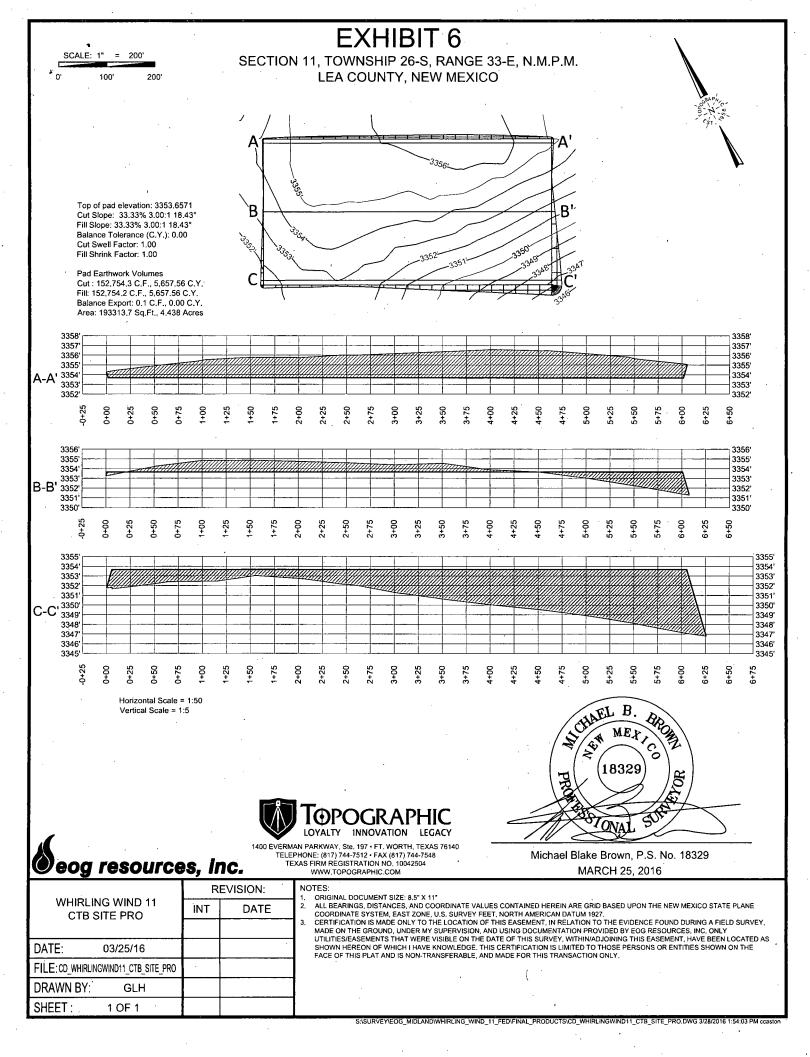
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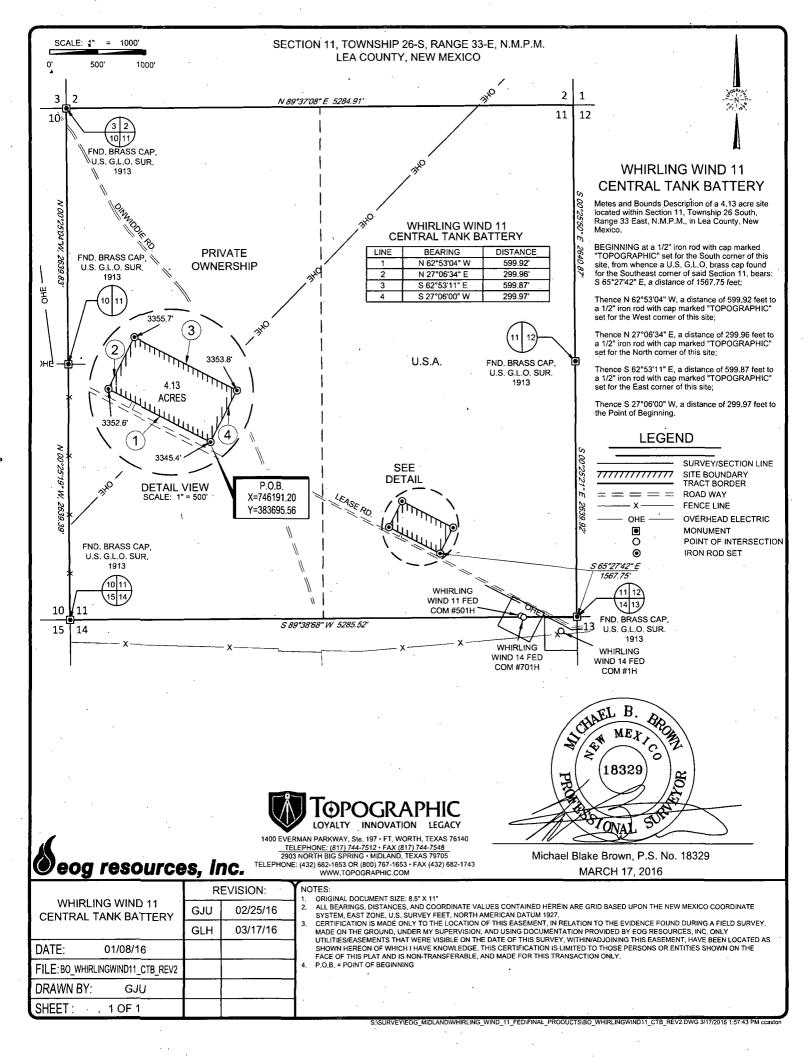
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1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,100'
Top of Salt	1,440'
Base of Salt / Top Anhydrite	4,880'
Base Anhydrite	5,120'
Lamar	5,120'
Bell Canyon	5,160*
Cherry Canyon	6,190'
Brushy Canyon	7,780'
Bone Spring Lime	9,250'
1 st Bone Spring Sand	10,220'
2 nd Bone Spring Shale	10,420'
2 nd Bone Spring Sand	10,755
3 rd Bone Spring Carb	. 11,255'
3 rd Bone Spring Sand	11,820
Wolfcamp	12,325'
TD	12,495'
	· .

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0-400*	Fresh Water
Cherry Canyon	6,190'	Oil
Brushy Canyon	7,780'	Oil
1 st Bone Spring Sand	10,220'	Oil
2 nd Bone Spring Shale	10.420	Oil,
2 nd Bone Spring Sand	11,755'	Oil
3 rd Bone Spring Carb	11,255'	Oil
3 rd Bone Spring Sand	11,820'	Oil
Wolfcamp	12,325'	Oil

1.

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 10.75" casing at 1.125' and circulating cement back to surface.

4. CASING PROGRAM - NEW SEE COA

DFmin Hole DFmin DFmin Csg Size Interval OD Weight Grade Conn Collapse Burst Tension 14.75" $0 - 1 + 125^{2}$ STC 10.75" 40.5# J55 1.125 1.25 1.60 9.875" 0-8,000' 7.625" 29.7# HCP-110 LTC 1.125 1.25 1.60 8,000' - 10,900' 8.75" 7.625" 29.7# HCP-110 Ultra FJ 1.125 1.25 1.60 6.75" 0'-19,979' 5.5" 23# HCP-110 **ULT SFII** 1.125 1.25 1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FI casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Cementing Program: SEE CoA

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
10-3/4" 1,125	325	13.5	1.73	9.13	Class C + 4.0% Bentonite + 0.6% CD- $32 + 0.5\%$ CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
1025	200	14.8	1.34	6.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 10,900	750	9.0	2.50	9.06	Class C + 0.6% ASM-3 + 0.15% CDF-4P + 0.6% LTR + 0.5% SCA-6 + 0.13 pps LCL-11 + 0.13 pps LDP-c-0215
	500	12.5	1.71	9.06	Class C + 0.6% LTR + 0.5% SCA-6 + 0.6% ASM-3 + 0.15% CDF-4P + 0.13% LCL-11 + 0.13% LCF-7
	250	15.6	1.19	5.20	Class H + 0.2% ASM-3 + 0.3% SCA-6 + 0.65% LTR + 0.3% SPC-2
5-1/2" 19,979	725	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17

COMENT

SEE COA

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

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5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/250 psig and the annular preventer to 5000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/250 psig and the annular preventer to 5000/250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

	Depth	Туре	Weight (ppg)	Viscosity	Water Loss
	0 – 1,125 '	Fresh - Gel	8.6-8.8	28-34	N/c
1025	1,125 [;] - 10,900'	Brine	8.8-10.0	28-34	N/c
	10,900' - 19,979'	Oil Base	10.0-11.5	58-68	3 - 6
	Lateral				

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

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7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.



SEE

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GR–CCL Will be run in cased hole during completions phase of operations.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at TD is 182 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 7472 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

11. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

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The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

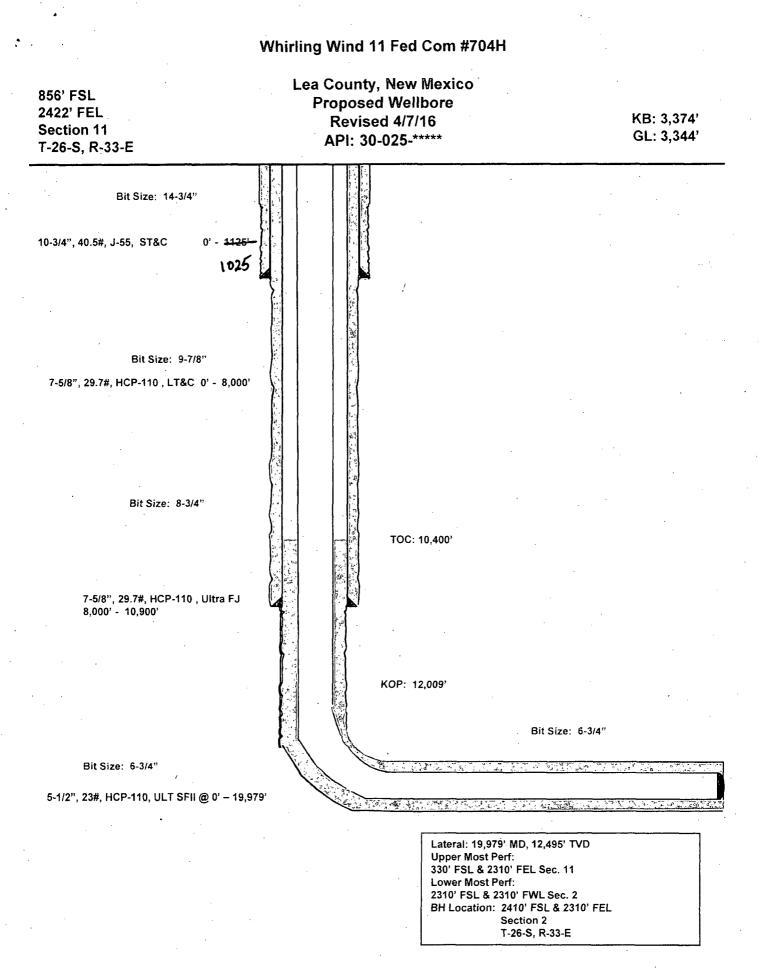
A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi. Prior to running the intermediate casing, the rams will be changed out to accommodate the 7-5/8" casing. The bonnet seals will be tested to 1500 psi. After installing the intermediate casing the casing rams will be removed and replaced with variable hore rams. The remaining BOPE will not be retested after installing the intermediate casing.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

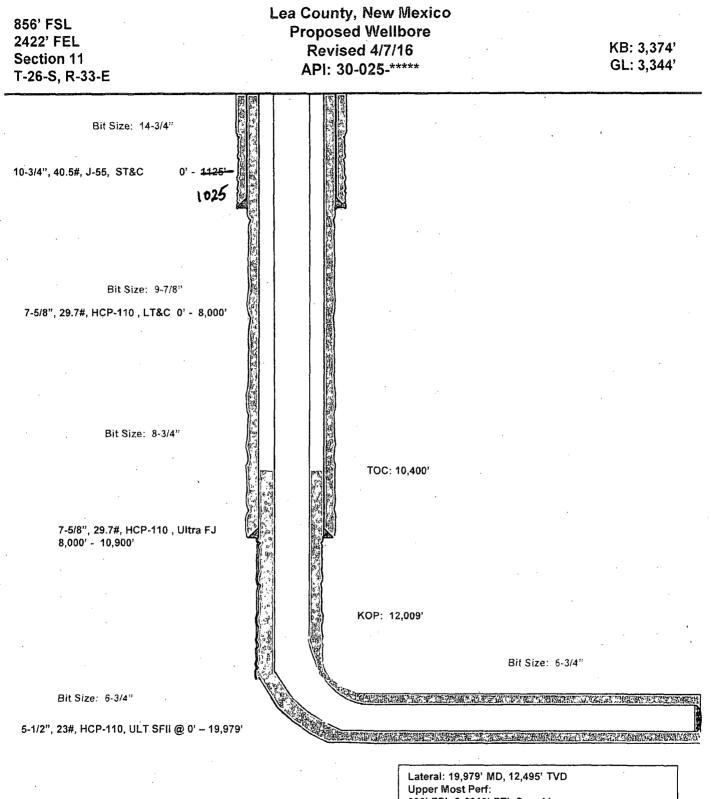
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Wellhead drawing Attached.

とうとなるので、ために、「ないた」は、「ないない」ので、「ないない」で、「ない」ので、「ない」ので、「ない」ので、「ない」ので、「ない」ので、「ない」ので、「ない」ので、「ない」ので、「ない」ので、「ない」ので、



Whirling Wind 11 Fed Com #704H



330' FSL & 2310' FEL Sec. 11 Lower Most Perf: 2310' FSL & 2310' FWL Sec. 2 BH Location: 2410' FSL & 2310' FEL Section 2 T-26-S, R-33-E

