1		OCD Hobbs AT	5-16-352	
/ w	Formation OCD		I FORM API	ROVED
			OMB No. 1	004-0137
	UNITED STATES		Expires: Janua	ry 31, 2018
	APR 04 2016 UNITED STATES DEPARTMENT OF THE IN		5. Lease Serial No.	·····
	BUREAU OF LAND MANA			-69457
	DECEMPERATION FOR PERMIT TO D		6. If Indian, Allotee or	Tribe Name
	RECE			-
	1a. Type of work: X DRILL R	EENTER	7. If Unit or CA Agreer	nent Name and No
		LEIN I EK		/3160177
	1b. Type of Well: X Oil Well Gas Well Of	her	8. Lease Name and We	UNO.
	1c. Type of Completion: Hydraulic Fracturing	ngle Zone Multiple Zone	EK-31 BS2 FE	DERAL COM. #3
	2. Name of Operator	7	9. API Well No.	
	2. Name of Operator McELVAIN ENERGY, INC	22044 10	30-025- 43	148
	3a Address 1050 17th STREET SUITE 2500	30. Phone No. (include area code)	10. Field and Pool, or	Explorator
	, DENVER, COLORADO-80265-2080	303-893-0933	EK-BONE SPRIN	G 21650
	4. Location of Well (Report location clearly and in accordance	with any State requirements of	11. Sec. T.R. M. or B	lk. and Survey or Area
	At surface SL- 125' FNL & 1179' FWL		SECTION 31	· · ·
•				T18S-R34E
· ·	Ar proposed prod zone230' FSL & 1980' FWL			· · · · · · · · · · · · · · · · · · ·
	14. Distance in miles and direction from nearest town or post off Approximately 28 milesWest of Hobb	ice [*]	12. County or Parish	13. State
•			LEA CO.	<u>NM</u>
• •	15. Distance from proposed* location to nearest		7. Spacing Unit dedicated to this	weil
	property or lease line, ft.	1111	160	
- ı	(Also to dealest dilg. dult luic, it ally)			· · · · · · · · · · · · · · · · · · ·
	18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth TVD-10,072	20. BLM/BIA Bond No. in file	
: 4	applied for, on this lease, ft. 85'	MD-14,803'	СОВ# 000010	
	21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	and the second	n`
	3863' GL	WHEN APPROVED	35 Days	
· · · · ·				
		24. Attachments		
		24. Attachments		
•	The following, completed in accordance with the requirements of (as applicable)		and the Hydraulic Fracturing ru	ie per 43 CFR 3162.3-3
	The following, completed in accordance with the requirements o (as applicable)		and the Hydraulic Fracturing ru	ie per 43 CFR 3162.3-3
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McELVAIN ENERGY, INC. EK-"31" BS2 FEDERAL COM. #3H
UNIT "D" SECTION 31 T18S-R34E LEA CO. NM
In response to questions asked under Section II of Bulletin NTL-6 the following
information on the above well is provided for your consideration.
1. Location of well: SL- 125' FNL & 1179' FWL SECTION 31 T18S-R34E LEA CO. NM BHL=260' FSL & 1980' FWL SECTION 31 T18S-R34E LEA CO. NM
2. Ground Elevation above Sea Level: 3863' GL
3. Geological age of surface formation: Quaternary Deposits: '
4. <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using drilling mud as a circulating medium to remove solids from hole.
5. Proposed drilling depth: TVD-10,072'
MD-14,803' 6. Estimated tops of geological markers:
Ruatler Anhydrite 1683' 1st Delaware Sd. 5448' 2nd Bone Spring Sd 9482'
Salt1743' 2nd Delaware Sd.5733' Target Window9916'Queen4433' Bone Spring)7597' Target CenterLine9944' /
Delaware 5408' 1st Bone Spring Sd. 8932'
7. <u>Possible mineral bearing formations:</u> Yates O/G/W 1st Delaware Sd. O/G/W 1st Bone Spring O/G/W
Penrose 0/G/W 2nd Delaware Sd 0/G/W 2nd Bone Spring 0/G/W
Delaware O/G/W Bone Spring Sd. O/G/W 8. CASING PROGRAM: See COP
HOLE STZE INTERVAL CASING OD INTERVAL
26" 0_80! 20" c i
$130_{17,1/2"}$ 0- $1710'$ 13.3/8" 54.5# 9 D GTAG 5 5
12 1/4" 0-4800' 9 5/8" 40# 8-R LT&C L-80 New
8 1/2" 0-14,803' 5 1/2" 17# BPN BPN HCP-110 New
BUTTRESS
CASING SAFETY FACTORS: Collapse, 1.125 Burst 1.00 Body Yield 1.5
Joint Strength 8-Round 1.8
Buttress 1.6

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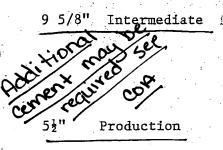
9. CASING SETTING DEPTHS AND CEMENTING:

20"	Conductor	
	· · ·	

Set 80' of 20" conductor pipe and cement to surface with Redi-mix.

13 3/8" Surface

Run and set 1740⁺ of 13 3/8" 54.5# J-55 ST&C casingscement with 990 Sx. of Class "C" Lead cement + 3% BWOC lightwweight additive. 8.88 gal mix water=+ 1% CaCl, Yield 1.68 ft3/Sx, 100% Excess, tail in with 545 Sx. of Class "C" cement + 1% CaCl, 6.43 gal/Sx. mix water% Yield 1.34 ft3/Sx. 100% Excess Top of cement surface.



Run and set 4800' of 9 5/8" 40# L-80 LT&C Casing. Cement with 975 Sx. of 35/65 Class "C" lead cement=6% Gel, + 5% salt, + 0.4% Retarder, + ECM, + 10.00 gal/Sx mix water.12.9ppg. Yield 1,69 ft3/Sx. 50% Excess, tail in with 190 Sx. of Class "C" cement + LCM, + 6.32 gal/Sx mix water, 14.8ppg. Yield 1.32 ft3/Sx: 50% Excess circulate cement to surface.

Run and set 14,798' of 52" 17# HCP-110 BNP CASING. Cement with 590 Sx. of 50/50 Class "H" lead cement + 2% Gel, +1000 fluid loss additive, 15.95gal/Sx. Tmix water, Yield 2667, tail in with 1225 Sx. of 50/50 POZCClass "H" cement + 2% Gel, fluid loss additive, thinners, and retarders 14.5#/galYYield 1.23ft3/Sx. 25% Excess, top of cement 4300'.

10. PRESSURE CONTROL EQUIPMENT:

Exhibit "E" shows a 3000 PSI working pressure B.O.P. consisting of a packoff an annular bag type preventor, blind rams, and pipe rams. A 13 5/8" B.O.P. will be nippled up on the 13 3/8" surface casing and will remain on the hole till the 9 5/8" intermediate casing is run. It will be tested by a third party testing company to 2000 PSI. A 11" 5000PSI B.O.P. will be nippled up the hole for the drilling of the production hole. It will be tested by a third party testing company to 5000 PSI. The B.O.P.s will be operated at least once in each 24 hour period and the blind rams will be operated when the drill pipe is out of the hole. A full opening stabbing valve and an upper kelly cock will be available on the derrick floor at all times and will be compatible with the drill pipe that is in use while drilling this well. Exhibit "E-1" shows a 3" 5000 PSI choke manifold with a manual choke and a hydraulically operated remote choke. The choke manifold will be a rigid connection to the B.O.F. No abnormal pressures or temperatures are expected while drilling of this well. Other wells drilled in this near vicinity have not encountered any abnormal pressures or temperatures. No H2S is expected to be encountered.

Page 2

	N ENERGY, INC.
EK-"31" BS2	FEDERAL COM. #3H
UNIT "D"	SECTION 31
T18S-R34E	LEA CO. NM

^{11.} PROPOSED MUD CIRCULATING SYSTEM:

DEPTH MUD WT. VISC. FLUID LOSS TYPE MUD SYSTEM 0-1710' 9.4-9.4 30-36 NC Fresh water spud mu add paper to combat seepage, and use hi viscosity sweeps t clean hole	
VISCOSICY Sweeps L	1
	gh
1710-4800' 9,8-10,2 28-32 NC Brine water use pap	
to control seepagea paper to control se use high viscosity	epage
to clean hole	. हर्म 1
4800-14,803 8.7-9.2 28-32 12-15 cc Cut Brine add Dynaz starch.HB-411 to control water loss	•

maintain hole stability.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's, open hole logs, cut cores, and run casing, the viscosity, water loss, and other properties may have to be altered to meet these requirements. Pit levels will be monitered visually, and an electronic pit level indicator will be employed.

THIS WELL BE DRILLED USING A CLOSED MUD SYSTRM

Page 2A

12. LOGGING, CORING, AND TESTING PROGRAM:

oof.

A. Open hole logs: Dual Laterolog, SP, Gamma Ray, Caliper, Neutron Density, from 9455' back to 4800'. Gamma Ray Neutron back to surface.
B. Rig up mud logger on hole at 3500' and keep on hole to TD.

C. No DST's and no cores are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No.6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drillthis well. Estimated Bottom Hole Pressure 4250 PSI, and Estimated BHT 150°F.

14. ANTICIPATED STARTING AND DURATION OF OPERATION:

Road and locationconstruction will begin after the BLM has approved the APD. Anticipated spud date would be as soon as the location construction and a rig becomes available. Move in operation and drilling is expected to take 40 days. If production casing is run then an additional 40 days will be needed to compacte the well and construction of production facilities, and lay flowlines to place well on production.

15, OTHER FACETS OF PRODUCTION: See

McElvain Energy, Inc. plan on drilling eight wells off of a single drilling pad. There will be 4 horizontal wells in the Bone Spring formation and 4 wells in the Wolfcamp formation, these wells will conform with the Mew Mexico Oil Conservation Division rules. A combined tank battery will be constructed on the West side of the drilling pad that will satisfy both formation's production, when the drilling of wells has been completed reclamation on the North and the South side of the drilling pad of 100'X520' on the North and 100'X5565' on-the South will be constructed.

McElvain Energy, Inc. will apply for a Non-Standard Location with the NMOCD to comply with the subject well.

The plan for this well is to move in a spudder rig and drill conductor hole and cement conductor pipe in place. Then the rig would drill the surface hole to 1710'. then run 1/40' of 13 3/8" 54.5# J-55 ST&C casing. Adcement company would be hired to cement the surface casing in place, the spudder rig would be kept over hole till it was sure the cement job meets all COA's per the APD. At this point MEI would weld a steel plate with appressure gage to ensure that no debree can enter the holeand would allow the BIM personnel to inspect it to see that no pressure build up occurs. Then within 30-60 days a drilling rig would be moved and rigged up on the location and drill to TD, run-casing and complete well for production.