

OPERATOR: Cobra Oil & Gas Corporation**WELL:** STATE 19 #1**A.F.E. No.:** 133601 **PERMIT NO.:****LOCATION:** 1,865' FNL - 2,165' FEL
Section 19, T24S-R33E
Lea County, New Mexico**ELEVATION:** 3,541 G.L. - 3,567' K.B.**PROJECTED TOTAL DEPTH:** 16,000' Morrow**ANTICIPATED SPUD DATE:** January 31, 1997**DRILLING CONTRACTOR:** PATTERSON DRILLING CO., INC. - Rig No. 19 **FOOTAGE**
Office : Answer 24 Hrs - 915/573-1104
Drlg.Super. : A. J. Henderson - 915/573-1831
Tool Pusher : Johnny Blackwood - 505/396-4684 Home
915/338-3816 Mobile
Rig Floor Phone: 915/338-9319**DIRECTIONS TO LOCATION:** West from Jal on Hwy 128 for 26 miles to (long extended low spot) cattleguard on South (left). Go thru cattleguard for 1/2 mile south, 1/2 mile west to location.

PROJECTED FORMATION TOPS:	Depth
Rustler Anhy	1,550'
Base Salt	4,800'
Lamar limestone	5,050'
Delaware sandstone	5,100'
Cherry Cyn	6,080'
Brushy Cyn	7,850'
Bone Spring	9,100'
1st Bone Spring Sd	10,050'
2nd Bone Spring Sd	10,700'
3rd Bone Spring Sd	10,950'
Wolfcamp	12,350'
Cisco-Canyon	13,700'
Strawn	14,150'
Atoka	14,400'
Atoka bank	14,450'
Lower Atoka	14,650'
Morrow	15,100'
Middle Morrow	15,550'
PTD	16,000'

WATER HAULING: XL Transportation - 800/748-2265 505/395-2010
Bill Brininstool**CASING AND CEMENT PROGRAM:** HALLIBURTON SERVICES - Hobbs, NM 505/392-6531
Furnished by COBRA -

Depth	Hole Size	Casing	Cement
0' - 40'	36"	30" Conductor	6 yds grout
0' - 650'	26"	20" 94# K-55 BT&C	770 sx Prem w/2% CaCl ₂ , 6% Howco gel tail w/510 sx Prem Plus w/2% CaCl ₂
0' - 5,000'	17-1/2"	13-3/8" 61#, 68#, 72# BT&C	Lead w/3550 sx HLP w/.25#/sx Flocele, 5#/sx Salt, tail w/675 sx Prem Plus w/2% CaCl ₂
0' - 12,300'	12 1/4"	9 5/8" 43.5#, 47# LT&C	1st Stage: 1330 sx Prem w/.5% Halad-322, .5% Halad-344, .2% HR-5 2nd Stage: Lead w/785 sx HLP w/.3% Halad-9 8#/sx Salt, tail w/200 sx Prem w/.3% Halad-9 Fluid caliper should be run.
12,000' - 15,500	8 3/4"	7" 35# LS-110 AB FL-4S	Lead w/10 bbls 12# Dual Spacer, follow w/575 sx Prem 50/50 Pozmix "A", w/2% Howco gel, 4% Halad-344, .5% Halad-413, .2% HR-5
15,200' - 16,000'	6 1/8"	4 1/2" 15.1# S-95 AB FL-4S	Lead w/10 bbls 12# Dual Spacer, 130 sx Prem 50/50 Pozmix "A" w/2% Howco gel, .4% Halad- 344, .5% Halad-413, .2% HR-5

Note: Sandblast casing across pay interval.
Clean, Inspect, Dope, & Install Centralizers on rack.
1 Double-Bow TF Cent. per 40' - 120' above & below pay.
1 Double-Bow TF Centralizer per 20' across pay zone.
1 Scratcher per 10' across pay zone.
1 Stop Collar per 10' across pay zone
1 Diff-Fill Float Shoe & Float Collar
2 Units Thread Lock
API Modified Thread Dope

Reciprocate casing 30' while cementing and displacing plug. If pipe shows indications of sticking, stop reciprocation and complete displacement.

DEPTH MEASUREMENT: Strap drill pipe on all DST's, on bit trip nearest 15,000', and at TD.**SAMPLES/DRILL TIME:** Record 10' drill time from 4,500' to TD.



MUD PROGRAM: L STAR MUD INC. - Midland, Tx - ;/684-7446 - 24 Hr.
Engineer: Lynn Pearson - 915/553-1406, Jim Paysinger 915/553-4931

Depth	Mud Weight	Viscosity	Filtrate	Mud Type
0' - 650'	8.6 - 9.0	32 - 34	N/C	Spud Mud
650' - 5,050'	10.0 - 10.1	28 - 29	N/C	Brine/Lime
5,050' - 12,350'	8.5 - 8.8	28 - 30	N/C	FW/Cut Brine
12,350' - 14,000'	8.8 - 9.2	28 - 30	N/C	FW/F. Gel
14,000' - 14,600'	10.0 - 15.0	36 - 38	< 10	Brine/XCD/Barite/Pac-L
14,600' - 16,000'	10.0 - 12.0	36 - 38	< 10	Brine/XCD/Pac-L

Raise viscosity to 40 - 45 for DST's and logging. Rig up centrifuge w/double screen, double deck shaker w/ 20-40 mesh screen on top and 80-100 mesh screen on bottom.

BOP & TESTING: Test Bop & Choke Manifold to 2,000 psi prior to drilling out of 13 3/8" Casing. Secure manifold and all lines. Double Ram BOP with blind rams on bottom Hydril. Rotating Head Bowl installed before 9,000'.

MUD LOGGERS: SUTTLES LOGGING INC. - Midland, Texas - Michael G. Metcalf
Office - 915/687-3148 Fax - 915/687-3157

Commence logging at 4,500'. Maintain two man unit. Logger prepare one set dry samples. Keep 5" and 1" Mud Log. Report any significant show immediately to Cobra representative listed below.

TYPE LOG: Bettis, Boyle & Stovall - Lotos Federal #1 - NW/4 SE/4 Sec. 9

DST PROGRAM: TO BE DETERMINED

Possible DST's in Strawn, Atoka and Morrow. Other possible DST's depending on shows.

OPEN HOLE LOGS: TO BE DETERMINED
Phasor Induction SFL - TD to surface csg.
CNL/LDT/GR (minimum) - Microlog
Sonic - BHC
Formation Micro Imager
Log Net - Tool insurance will be taken.

REPORTS: Call daily drilling report to Cobra Oil & Gas Corporation Wichita Falls Office before 8:30 a.m. Weekdays - P.M. Claiborne before 8:30 a.m. Weekends and Holidays.

NOTIFICATIONS: Notify key personnel of any hole problems and prior to testing, logging, running casing etc.

COMPANY PERSONNEL: Cobra Oil & Gas Corporation - Wichita Falls, TX
P. Michael Claiborne 817/716-5100 Office
817/716-5110 Fax
817/691-5193 Home
817/781-5473 Cellular
Glen Waugh 817/781-6588 Cellular
Rory Edwards 817/322-7157 Home
Frank Higginbotham 817/855-5988 Home
Robert Osborne 817/767-6044 Home
817/781-5471 Cellular
817/779-2446 Lake

Cobra Oil & Gas Corporation - Well Site Representative:
Herman Wright 915/353-4679 Office
915/270-3775 Cellular
Randy Ford 915/559-2222 Cellular
800/518-9809 Pager
915/570-7216 Home
915/682-0440 Office
915/682-0441 Fax

Cobra Oil & Gas Corporation - Geological Representative:
Chuck Howbert 915/684-6371 Office
915/697-6536 Home
915/270-8519 Cellular
Don Fish 205/758-6038 Home
205/345-4006 Office
Frank Wilson 817/716-5100 Office
817/696-0446 Home

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