

Morton Unit #3

Morton North Field

OBJECTIVE:

Perforation & Test of the Permo-Penn

WELL DATA:

API No. 30-025-35422

Legal Location: 800' FSL & 660' FEL, Sec. 32, Township 14 South, Range 35 East, NMPM, Lea Co., N.M.

Elevation: 4023' GL

Surface Casing: 11 3/4" 65# H-40 @ 424'. Cmt'd w/ 350 sks.

Intermediate Casing: 8 5/8" 24# J-55 @ 6141'. Cmt'd w/ 1900 sks.

Production Casing: 5 1/2" 20# P-110 (11957'-13768'), 17# P-110 (9699'-11957') 17# L-80 (1659'-9699'), 17# P-110 (0'-1659'). Cmt'd w/ 700 sks. TOC @ 9200'. Short Joint @ 11807'

Previous perms: Atoka 12,966' – 12,978' @ 6 spf. (72 holes)

PBTD approx. 13,678'

TD: 13,678'

Volumetric Capacities:

- Tubing = .0058 bbl/ft
- Annular = .0152 bbl/ft
- Casing = .0232 bbl/ft

Well Configuration:

2 7/8" tubing and AS1X packer @ 12,650'.

PROCEDURE:

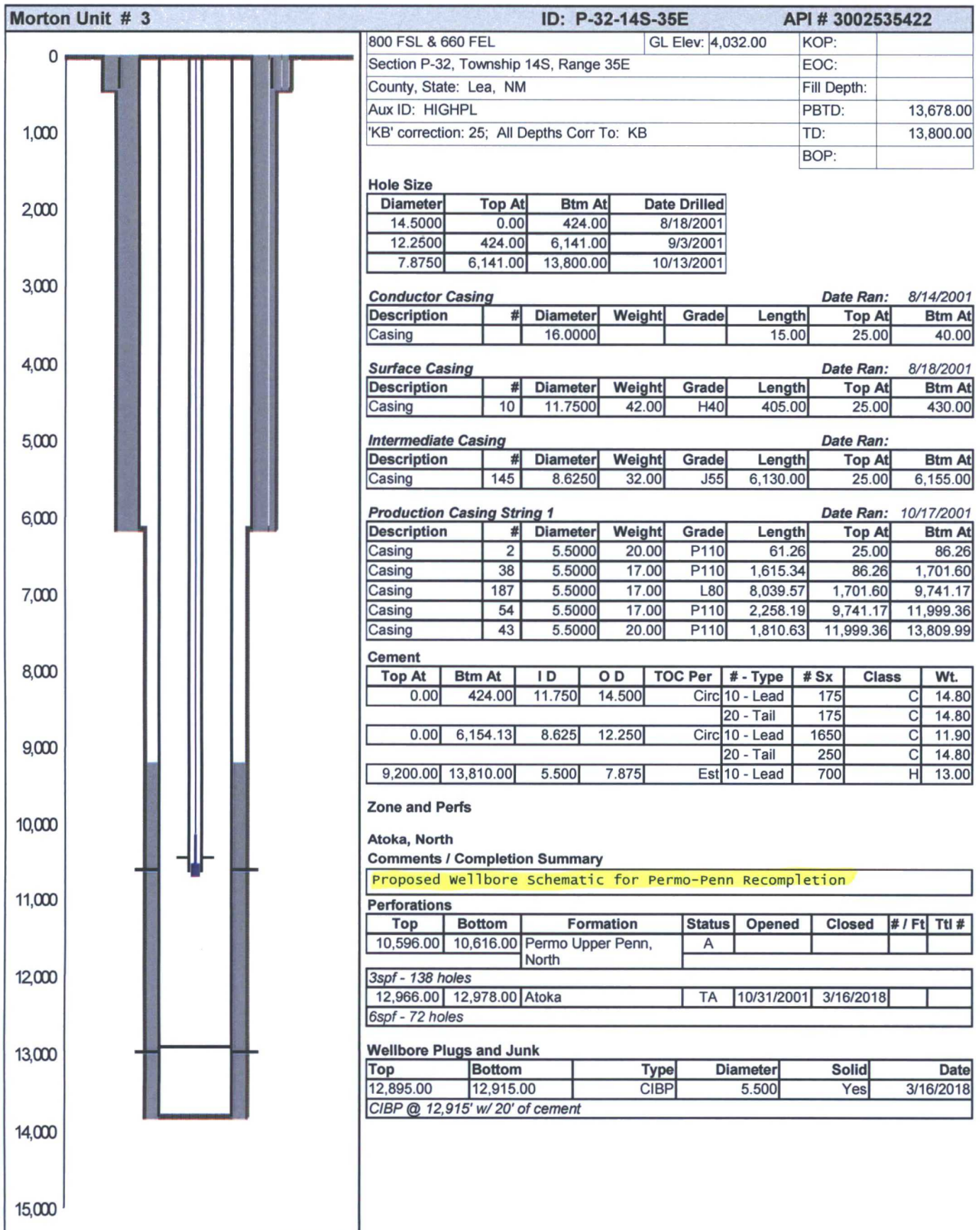
1. MIRUPU. Set (1) 500 bbl frac tank for flush/flowback.
2. ND WH. NU BOP.
3. Rls packer and POOH w/ packer and tubing. Stand back tbg & LD packer.
4. MIRU WL, set CIBP @ ~12,915' over the Atoka interval and dump bail 20' of cement. POOH.
5. Test casing & plug to 3000#s.
6. PU & RIH w/ 3 1/8" conventional perforating guns, correlate CCL to JSI CBL/CCL/GR dated 10/29/01. Perforate **10,552' – 10,578' & 10,596' – 10,616'**, both at 3 spf (138 holes total) using premium (deepest penetrating) charges.
7. POOH & RDMO WL company.

8. PU & RIH w/ 2-7/8" tubing and 5 1/2" treating packer with O/O tool and set @ ~ 10,500'. Swab test well recording FL's and cuts. Report results.
9. NU Tree Saver. MIRU Acid Company, breakdown perfs @ **10,552' – 10,578' & 10,596' – 10,616'**, & acidize Permo-Penn at 3-5 bpm with 5000 gals of 15% NEFE double inhibited HCL dropping 200 ball sealers evenly spaced. Hold 2000#s on backside during acid job.
10. Flush to top perf, ~ **63 bbls**. Record ISIP, 5, 10, & 15 min SIP's. RDMO Acid Company. ND Tree Saver.
11. Flow well back and RU swab tools. Commence swabbing recording FL's & cuts. Report results.
12. Install Tree Saver. MIRU Frac Company and pump frac through Tree Saver and down 2 7/8" tubing as per attached design across 10,552' – 10,616' perf interval. Flush to top perf, ~ **63 bbls**. Record ISIP, 5, 10, & 15 min SIP's. Hold 2500#s on backside during frac job.
 - NOTE: The internal yield (burst pressure) of the tubing is **10570 psi**. Casing @ perf interval (5 1/2" 17# P-110) is **10640 psi**.
13. RDMO Frac Company.
14. Flow well back. ND Tree Saver, NU BOP. RU swab tools and commence swabbing. Record FL's & cuts.
15. POOH w/ packer and tubing. PU 4 3/4" bit and CO to PBTD if needed. POOH w/ bit.
16. PU & RIH w/ production tubing, rods, and insert pump.
17. Space out & hang well on.
18. Commence testing & turn over to production.

Wellbore Schematic (From Surface to TD)

Printed: 3/16/2018

Page 1



Wellbore Schematic (From Surface to TD)

Printed: 3/16/2018

Page 2

Morton Unit # 3**ID: P-32-14S-35E****API # 3002535422****Tubing String 1****Date Ran:** 3/16/2018

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	325	2.8750	6.50	L-80	10,402.00	25.00	10,427.00
Tubing Anchor	1	2.8750	6.50	L-80	3.00	10,427.00	10,430.00
Tubing	6	2.8750	6.50	L-80	194.00	10,430.00	10,624.00
Seat Nipple	1	2.8750	6.50	L-80	1.00	10,624.00	10,625.00

Rod String 1**Date Ran:** 3/16/2018

Description	#	Diameter	Rod Box	Grade	Length	Top At	Btm At
Polish Rod	1	1.5000	Full SM	N97	30.00	0.00	30.00
Rods	144	1.2500	Full SM	FG	5,400.00	30.00	5,430.00
Rods	188	0.8750	Full SM	KD	4,700.00	5,430.00	10,130.00
Sinker Bars	18	1.5000	Full SM	KD	450.00	10,130.00	10,580.00
Pump	1	1.5000	Full SM	N97	30.00	10,580.00	10,610.00



Yates Daily Production Report

MORTON UNIT #3

Report Date: 6/15/2015

Report # 8.0

VERTICAL - Original Hole, 6/15/2015 2:00:00 PM		Operator YATES PETROLEUM CORPORATION		API/UMI 3002535422		Well Code 005697		Spud Date 2/27/2001 00:00	
Surface Legal Location SEC 32, TWP 14S, RNG 35E, UNIT P, LEA CO., NM		Ground Elevation (ft) 4,023.00		KB-Grid (ft) 25.00					
N/S Dist (ft) 800.0		N/S Ref FSL		E/W Dist (ft) 660.0		E/W Ref FEL		Actual Kick Off Depth (ftKB) Kick Off Method	
MD (ftKB)		Vertical schematic (actual)		Job					
-547				Well Completion Code NOT REQUIRED		Total AFE Amount (Cost)		End Date	
-410				Job Category General Operations		Primary Job Type Swab		Department Production	
-274				Phases					
-137				Job Phase PRODUCTION		Actual Phase Field Est (Cost)		11,207.11	
0				Daily Operations					
5				Report Start Date 6/15/2015 06:00		Report End Date 6/15/2015 14:00		Rig Time (hr) 8.00	
10				Operations Next Report Period					
15				Daily Field Est Total (Cost)		Actual Phase Field Est (Cost)		Cum Field Est To Date (Cost)	
20				1,893.98		11,207.11		11,207.11	
25				Daily Contacts					
33				Job Contact LEE ROY RICHARDS, PROD SUPERINTENDENT		Phone Mobile 575-703-5820			
41				Job Contact JOE CHAVEZ, PROD SUPERINTENDENT		Phone Mobile 575-746-7038			
49				Job Contact BRICE LETCHER, ENGINEER		Phone Mobile 575-748-5021			
57				Job Contact NOEL GOMEZ, PRODUCTION FOREMAN		Phone Mobile 575-513-1694			
65				Time Log					
137				Dur (hr) 8.00		Time Code SWAB WELL DOWN		Com Drove rig to location. ITP- 150#. Bled well down, Made 4 swab runs swab well dry, swabbed 7 bbls of oil and 3 bbls of water. Shut well in built up 450#. SDFN.	
209				Daily Costs					
280				Expense Cost Code 5000.1000		Cost Des SUB-SURFACE REPAIR & MAINT.		Field Est (Cost) 1,893.98	
352				Vendor MICO SERVICES		Note			
424				Rigs					
1,596				Rig Contractor MICO SERVICES, LLC		Rig Type WSU - Swabbing Unit		Rig # 33	
2,689				Rig Supervisor JOHNNY VEGA, TOOLPUSHER		Rig Start Date 6/15/2015 06:00		Rig Release Date 6/15/2015 14:00	
3,822				Daily Fuel Usage					
4,954				Fuel Type Diesel		Used During Rpt Time (gals) 12.0		Total Consumed 25.5	
6,067				Safety Checks					
7,463				Date		Type			
8,639				Description		Comment			
10,214				Casing Strings					
11,590				Casing Description Conductor Casing		OD (in) 16		String Grade H-40	
12,966				W/Len (lb/ft) 65.00		Set Depth (ftKB) 65.0		Length (ft) 40.00	
12,968				Casing Description Surface Casing		OD (in) 11 3/4		String Grade H-40	
12,971				W/Len (lb/ft) 42.00		Set Depth (ftKB) 424.0		Length (ft) 424.00	
12,973				Casing Description Intermediate Casing		OD (in) 8 5/8		String Grade J-55	
12,976				W/Len (lb/ft) 24.00		Set Depth (ftKB) 6,087.0		Length (ft) 6,087.00	
12,978				Casing Description Production Casing		OD (in) 5 1/2		String Grade J-55	
13,116				W/Len (lb/ft) 17.00		Set Depth (ftKB) 13,678.0		Length (ft) 13,678.00	
13,256									
13,396									
13,536									
13,678									
13,815									
13,952									
14,088									
14,225									

Conductor Casing: 16; H-40; 25.0-65.0

Surface Casing: 11 3/4; H-40; 25.0-424.0

Intermediate Casing: 8 5/8; J-55; 25.0-6,087.0

Production Casing: 5 1/2; J-55; 25.0-13,678.0

Perforated: 12,966.0-12,978.0

2.25"
not done
6/2/02 5 1/2" packer AS-1 Packer w/2.25" 8/10 12650
2 7/8" L-80