

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other _____

2. Name of Operator
MYCO INDUSTRIES, INC.

3. Address
P.O. BOX 840, ARTESIA, NM 8821

3.a Phone No. (Include area code)
(505)748-4280

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At Surface 660' FNL & 660' FWL (UNIT D)

At top prod. interval reported below SAME

At total depth SAME

14. Date Spudded

03/08/2004

15. Date T.D. Reached

04/23/2004

16. Date Completed

☐ D & A ☒ Ready to Prod.
06/14/2004

18. Total Depth: MD 11,925'
TVD

19. Plug Back T.D.: MD 11,865'
TVD

20. Depth Bridge Plug Set: MD
TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)
SCHLUMBERGER PLATFORM EXPRESS, CBL (ATTACHED)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17"	13-3/8 H40	48#	0'	475'	----	45 - "C"		CIRCULATED	
12-1/4"	9-5/8 J55	36#	0'	2,675'	----	880 - "C"		CIRCULATED	
8-3/4"	5-1/2 N80	17#	0'	11,992'	8,860'	1200-I "H"		CIRCULATED	
						2600-II LITE		CIRCULATED	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	11,273'	11,273'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MORROW	11,389'	11,515'	11,389-515'	0.36"	13-TOT.	PRODUCING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
11,389-515'	1500-GAL 7-1/2% + 10,000 GAL 40# GEL + 32,000 # SAND VIA TBG.

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JUL 15 2004

ARTESIA

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6/14/04	6/14/04	24	→	0	775	0	---	0.6097	FLOWING
Choice Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
1/8"	2200	0	→	0	775	0	---	PRODUCING	

Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

FIRST SALES 6-14-2004 (DUKE)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
DELAWARE	2804'				
BONE SPRINGS	5444'				
1ST B/S SD	6608'				
2ND B/S SD	7402'				
3RD B/S SD	8666'				
WOLFCAMP	9008'				
STRAWN	10310'				
ATOKA	10764'				
ATOKA LS	10858'				
MORROW	11258'				
LWR MORROW	11600'				
BARNETT	11820'				

32. Additional remarks (include plugging procedure):

*FORM C-144 (NMOCD) APPROVED 5-10-04 (PITS).

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.) 2. Geological Report 3. DST Report 4. Directional Survey
 5. Sundry Notice for plugging and cement verification 6. Core Analysis 7. Other CBL

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) A. N. MUNCY, PELSTitle EXPLORATION/OPERATIONS MANAGER

Signature

A. N. Muncy, PELS

Date

07/06/2004

Title 18 U.S.C. Section 101 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR: MYCO INDUSTRIES
WELL/LEASE: OLYMPIA 24 FED COM 1
COUNTY: EDDY, NM

500-0127

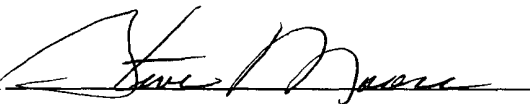
STATE OF NEW MEXICO
DEVIATION REPORT

188	1.00	7504	2.90
311	0.75	7736	1.50
433	0.50	7926	1.00
509	0.40	8190	2.00
703	0.80	8411	2.60
1003	0.10	8580	2.40
1400	0.75	8719	2.50
1683	0.75	8854	2.30
2188	0.75	9106	1.90
2875	0.75	9367	0.90
2869	1.00	9527	0.70
3119	1.00	9829	0.03
3149	1.00	10208	0.80
3400	1.00	10750	0.90
3651	1.00	11192	0.90
3854	0.70	11645	1.10
3922	1.00	11910	1.00
4157	1.00		
4409	1.00		
4650	1.00		
4741	0.30		
4904	1.00		
5154	1.00		
5400	1.00		
5650	1.00		
5766	0.80		
5910	1.00		
6150	1.00		
6414	0.50		
6690	1.00		
7456	3.00		

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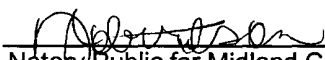
JUL 15 2004

OGG-ARTESIA

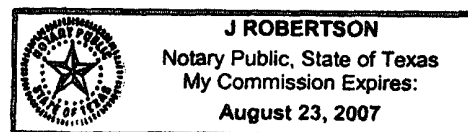
By: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 30th day of April, 2004, by
Steve Moore on behalf of Patterson-UTi Drilling Company LP, LLLP.


Notary Public for Midland County, Texas

My Commission Expires: 8/23/2007



OLYMPIA 24 FED. COM #1

TANK BTRY DIAGRAM

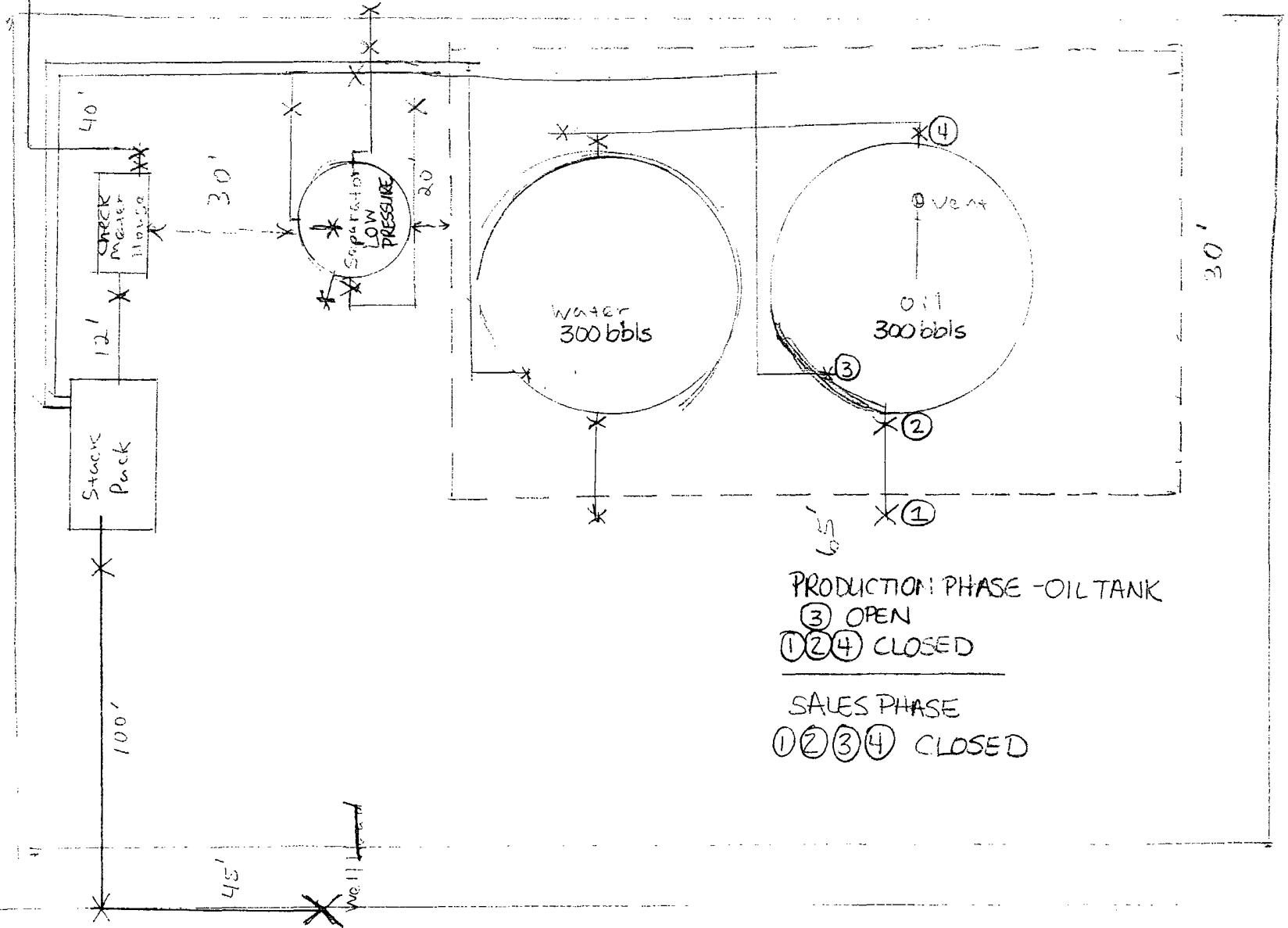
Olympia 24 Fed Com #1

CB

7-10-04

Sales Line

DUKE
SALES NET
UNITC-SEC 31-215-2
660 BBL * 1400 FEL



PRODUCTION PHASE - OIL TANK

③ OPEN

① ② ④ CLOSED

SALES PHASE

① ② ③ ④ CLOSED

N

22-141 50 SHEETS
22-142 100 SHEETS
22-143 200 SHEETS

CAMPBELL

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-1991

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MYCO INDUSTRIES, INC.					Lease or Unit Name OLympia 24 Fed Com				
Test Type ☒ Initial ☐ Annual ☐ Special					Test Date 06-14-2004		Well No. 1		
Completion Date 6-14-2004		Total Depth 11992		Plug Back TD 11865		Elevation 3170' GL		Unit Ltr - Sec - TWP - Rge. S24-T21S-R27E	
Csg. Size 5.500	Wt. 17.000	d 4.892	Set At 11992	Perforation: From 11389 To 11515				County Eddy	
Tbg. Size 2.875	Wt. 6.500	d 2.441	Set At 11273	Perforation: From To				Carlsbad Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple Initial					Packer Set At 11273		Formation Morrow		
Producing Thru Tubing		Reservoir Temp.F 186		Mean Annual Temp.F 86		Baro. Pressure 14.70		Connection MYCO-Duke	
L 11273	H 11273	Gg .609	% CO ₂ .99	% N ₂	% H ₂ S	Prover Prover		Meter Run Taps 4.00 Pipe	

Flow Data					Tubing Data		Casing Data		SIP/Flow Duration (HRS.)
No.	(Prover) Line Size x Orifice Size	Press. PSIG	Diff. h _w	Temp. F	Press. PSIG	Temp. F	Press. PSIG	Temp. F	
Shut-in Pressure					1600	74			
1.	4.00 x 1.38	658.00	4.70	86	1524	74			
2.	4.00 x 1.38	622.00	5.30	85	1489	74			
3.	4.00 x 1.38	588.00	6.10	83	1358	74			
4.	4.00 x 1.38	512.00	7.00	82	1188	74			

RATE OF FLOW CALCULATIONS

No.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. FACTOR F _t	Gravity FACTOR F _g	Super Compress. FACTOR F _{pv}	Rate of Flow (Q) MCFD
1.	9.388	56.229	672.7	.9759	1.2814	1.0486	692.2
2.	9.388	58.091	636.7	.9768	1.2814	1.0462	714.2
3.	9.388	60.634	602.7	.9786	1.2814	1.0443	745.5
4.	9.388	60.720	526.7	.9795	1.2814	1.0389	743.3

No.	P _r	TEMP.	T _r	Z
1.	.995	546	1.525	.9095
2.	.942	545	1.523	.9136
3.	.891	543	1.517	.9169
4.	.779	542	1.514	.9266

Gas-Liquid Hydrocarbon Ratio		Mcf/bbl	
API Gravity of Liquid Hydrocarbons		Deg.	
Specific Gravity Separator Gas	.609		
Specific Gravity Flowing Fluid		.609	
Critical Pressure	676 PSIA	676 PSIA	
Critical Temperature	357 R	357 R	

$$P_C = 1614.7 \quad P_C^2 = 2607.3$$

No.	P _w	P _w ²	P _C ² - P _w ²
1.	1541.3	2375	231.526
2.	1506.6	2269	337.501
3.	1376.0	1893	713.802
4.	1206.6	1455	1151.273

$$(1) \frac{P_C^2}{P_C^2 - P_W^2} = \frac{2.265}{775} \quad (2) \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = \frac{1.043}{775}$$

$$AOF = Q \left[\frac{P_C^2}{P_C^2 - P_W^2} \right]^n = 775$$

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OFF-ARTESIA

Absolute Open Flow 775		Mcf/d @ 15.025	Angle of Slope - 87.0	Slope, n .052
Remarks				
Approved By Division:		Conducted By: Craig Bailey	Calculated By: BPT System	Checked By: ANM

GAS WELL BACK PRESSURE CURVE

WELL TESTER: Craig Bailey

TEST DATE: 06-14-2004

OLympia 24 Fed Com
S24-T21S-R27E
Eddy ,NM
Exponent n: 0.0515

$P_c^2 - P_w^2 (10^3 \text{ PSI}^2)$

10

100

1000

Q (MCF/DAY)