

N.M. Oil Cons. DIV-Dist. 2

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1301 W. Grand Avenue

AR-0518 NM 88210

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

- 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

McCabe Energy, Inc.

3. Address

P.O. Box 3816, Midland, TX 79702

3a. Phone No. (include area code)

(432) 682-9653

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

At surface 1910' FNL, 1838' FEL, Sec. 20, T24S, R28E, NMPM

At top prod. interval reported below Same

At total depth

Same

14. Date Spudded

2/27/04

15. Date T.D. Reached

3/13/04

16. Date Completed

☐ D & A ☒ Ready to Prod.

18. Total Depth: MD 6350'

TVD

19. Plug Back T.D.: MD 6278'

TVD

20. Depth Bridge Plug Set: MD 6160'

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Compensated Neutron Photo Density Gamma Ray

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit report)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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8" J-55	68	0	450'	-	360 C1 "C"	475	205'	None
12 1/4	8 5/8" K-55	32	0	2522'	Surf. 1"	119 C1 "C"	157	Surface	None
						1080 C1 "C"	1426	Surface	None
7 7/8	5 1/2" J-55	17	0	6350		450 C1 "C"	594	4170'	None

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	6220, 72	None						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Brushy Canyon	4541	6262	5992 - 6225	NA	2 spf	Open
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
6219-25	A/1050 gals 7 1/2% NEFE HCl. Frac/20,000 gals AMBORMAX 1025D + 15,000# 20/40 Ottawa Sand + 10,000# 20/40 Ottawa SLC Sand.
5992-6091	A/2500 gals 7 1/2% NEFE HCl. Frac/35,000 gals AMBORMAX 1025D + 40,500# 20/40 Ottawa Sand + 20,000# 20/40 Santrol Super LC.

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
5/26/04	9/6/04	24	→	42	124	112	39.5	.6901	Pumping
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
-	0	0	→	42	124	112	2952	Pumping	

28a. 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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

RECEIVED

SEP 17 2004

OCC-ARTESIA

ACCEPTED FOR RECORD

SEP 15 2004

LES BASTAK
PETROLEUM ENGINEER

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.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of 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
Lamar	2520	2556	Limestone		
Bell Canyon	2556	3342	Sand, Shale		
Cherry Canyon	3342	4541	Sand, Shale		
Brushy Canyon	4541	6262	Sand, Shale		
Bone Spring	6262	TD	Lime, Shale		

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
☐ Sundry Notice for plugging and cement verification
☐ Core Analysis
☒ Other: Site Security Plan

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) Gregory L. HairTitle Executive Vice PresidentSignature Date 9/8/2004

Title 18 U.S.C. Section 1001 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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR: McCABE ENERGY
WELL/LEASE: WILLOW LAKE 20 FED 1
COUNTY: EDDY

141-0026

STATE OF NEW MEXICO
DEVIATION REPORT

450	1 1/2
725	1 1/4
1,006	1/2
1,227	1/2
1,445	1/2
1,949	2 1/4
2,137	3 1/2
2,200	3 3/4
2,263	3 1/2
2,375	3 1/4
2,387	2 1/2
2,481	2 1/4
2,588	2
2,709	1 3/4
3,123	1 1/4
3,411	3/4
3,661	1/2
4,194	1/2
4,604	3/4
5,206	1 1/2
5,332	3/4
5,582	1 1/4
6,025	1
6,350	1 1/4

RECEIVED

SEP 17 2004

OOD-ARTEZIA

By: [Signature]

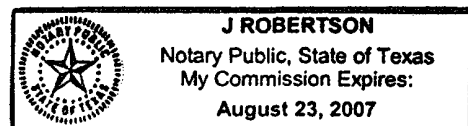
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 18th day of March, 2004, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 8/23/2007

[Signature]
Notary Public for Midland County, Texas





Highlander Environmental Corp.

Midland, Texas

June 29, 2004

Bureau of Land Management
P. O. Box 1778
Carlsbad, New Mexico 88221-1778

Re: Site Security Plan
Willow Lake Federal "20" #1 Tank Battery
Lease No. NMNM 92757
Eddy County, New Mexico

Gentlemen:

Notice is hereby given of the completion and availability of a Federal onshore lease site security plan. This plan covers the Willow Lake Federal "20" #1 tank battery located at SW/4 of NE/4 of Section 20, T-24-S, R-28-E, Eddy County, New Mexico. Attached is the site security diagram for the tank battery.

The site security plan will be maintained at the operator's office at:

McCabe Energy, Inc.
511 W. Ohio, Suite 301
Midland, Texas 79701
(432) 682-9653
Normal Business Hours (Monday – Friday): 8:00 AM to 5:00 PM

McCabe Energy, Inc. has contracted Highlander Environmental to prepare the site security plan. If you have any questions or need additional information, please contact us at (432) 682-4559.

Sincerely,

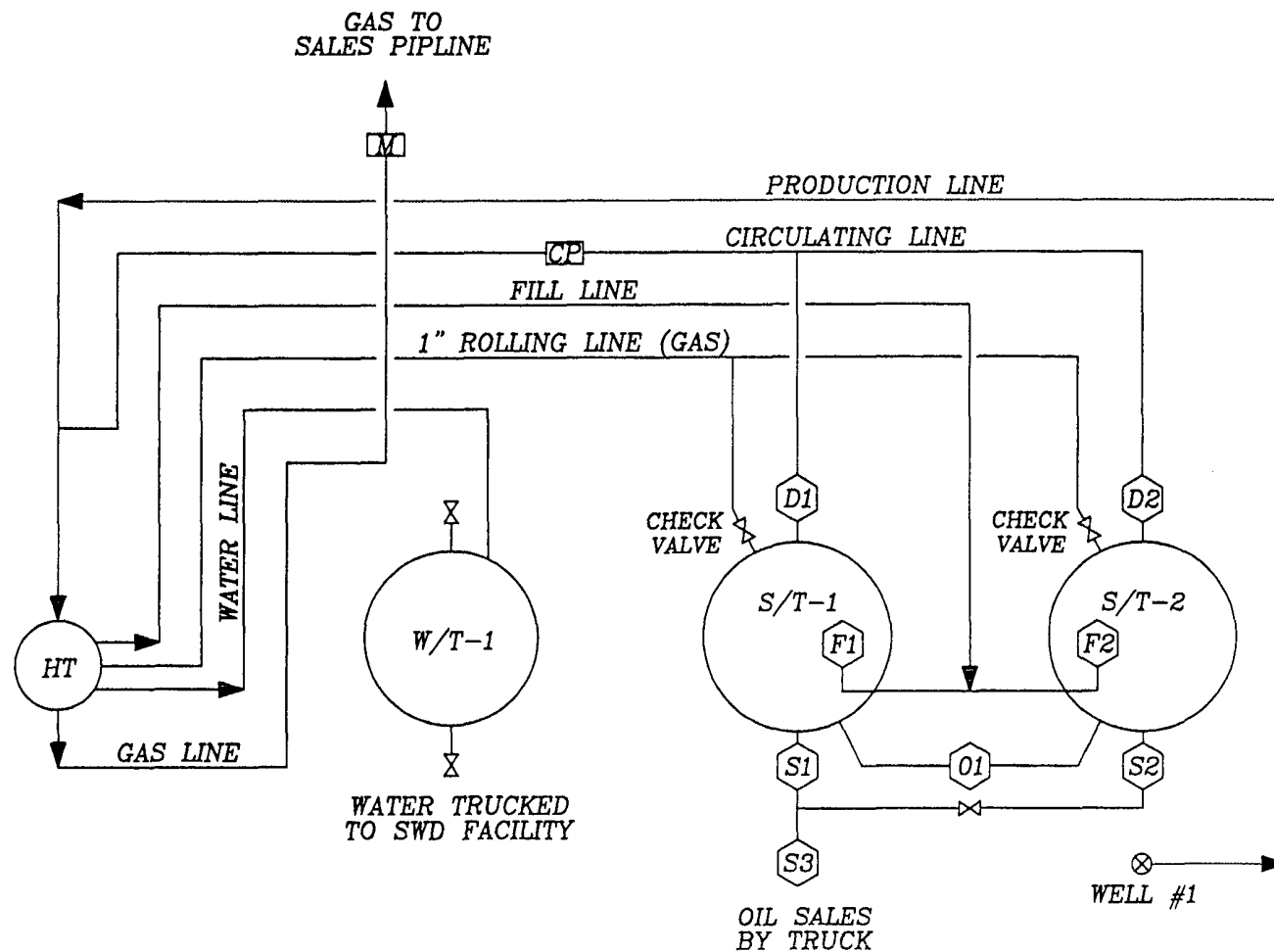
Robert McNeill, P. E.
Highlander Environmental Corp.

CC: McCabe Energy, Inc.

RECEIVED
2004 SEP 15 AM 9:32
BUREAU OF LAND MGMT
CARLSBAD OFFICE

RECEIVED
SEP 17 2004
OOP-ARTESIA

NORTH



CLOSED PRODUCTION SYSTEM

1. OIL SALES BY TANK GAUGE TO TRUCK
2. SEAL REQUIREMENTS

A. PRODUCTION PHASE:

VALVES (D1), (D2), (S1), (S2), (S3) SEALED CLOSED

B. SALES PHASE (FROM S/T-1)

VALVES (D1), (D2), (F1), (O1) SEALED CLOSED

VALVES (S2) SEALED CLOSED

VALVES (S1), (S3) OPEN

LEGEND

W/T-1, FIBERGLASS WATER TANK, 300 BBL

S/T-1, STEEL OIL TANK, 500 BBL

S/T-2, STEEL OIL TANK, 500 BBL

HT, HEATER TREATER, 4' X 20'

—X— VALVE

CP CIRCULATING PUMP

M GAS METER

NOT TO SCALE

DATE:
6/25/04
DWN. BY:
JJ
FILE:
C:\MCCABE\1185\WILLOW LAKE SITE

LOCATION OF SITE SECURITY PLAN
McCABE ENERGY, INC.
511 W. OHIO, SUITE 301
MIDLAND, TX. 79701

NMNM 92757 SW/4 OF NE/4
SECTION 20, T-24-S, R-28-E,
EDDY COUNTY, NEW MEXICO

WILLOW LAKE FED. "20" #1 TB
SITE SECURITY DIAGRAM

HIGHLANDER ENVIRONMENTAL
MIDLAND, TEXAS