

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.
30-025-30910

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
N. HOBBS (G/SA) UNIT
SECTION 27

8. Well No.
221

9. Pool name or Wildcat
HOBBS (G/SA)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER INJECTOR

b. Type of Completion:
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DEPT RESVR ☐ OTHER

2. Name of Operator
Shell Western E&P Inc.

3. Address of Operator
P.O. Box 576 Houston, TX 77001-0576 (WCK 4435)

4. Well Location (SL/BHL)
Unit Letter E/L : 2267/266 Feet From The NORTH Line and 505/1845 Feet From The WEST Line
Section 27 Township 18S Range 38E NMPM LEA County

10. Date Spudded 12-12-90
11. Date T.D. Reached 12-21-90
12. Date Compl. (Ready to Prod) 4-18-91 Inj
13. Elevations (DF& RKB, RT, GR, etc.) 3632.7' GR
14. Elev. Casinghead ---

15. Total Depth 4394' TVD; 4562' MD
16. Plug Back T.D. 4509'
17. If Multiple Compl. How Many Zones? ---
18. Intervals Drilled By Rotary Tools 0 - 4562' Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 4430-95' (SAN ANDRES)
20. Was Directional Survey Made YES

21. Type Electric and Other Logs Run DLL/MSFL, LDT/CNL, NGT, RFT, BHCS/GR, CET, CBTE
22. Was Well Cored NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
14 IN.	COND	53'			---
8-5/8 IN.	24#	1658'	12-1/4 IN.	850 SX CLS C	---
5-1/2 IN.	6, 14, 15.5#	4546'	7-7/8 IN.	635 SX SLAG + 400 SX C	---

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2-3/8 IN.	4356'

26. Perforation record (interval, size, and number)
4430-95' (2 JSPF)
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL 4430-95'
AMOUNT AND KIND MATERIAL USED ACD W/4000 GALS 15% HCL + 1250# ROCK SALT

PRODUCTION

28. Date First Production NA - INJECTOR
Production Method (Flowing, gas lift, pumping - Size and type pump)
Well Status (Prod. or Shut-in)
Date of Test Hours Tested Choke Size Prod'n For Test Period Oil - Bbl Gas - MCF Water - Bbl Gas - Oil Ratio
Flow Tubing Press. Casing Pressure Calculated 24-Hour Rate Oil - Bbl Gas - MCF Water - Bbl Oil Gravity - API - (Corr.)

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

30. List Attachments

DIRECTIONAL SURVEY

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature J. H. SMITHERMAN Printed Name J. H. SMITHERMAN Title REGULATORY SUPV. Date 5/03/91

DOWNNS
- Hobbs, NM

RE: FORM C-105
NORTH HOBBS (G/SA) UNIT
SECTION 27, WELL NO. 221

We are in receipt of the returned Form C-105 (see attached) which was received by the Hobbs OCD on 5-06-91. The returned form indicates that revisions have been made to the BHL footage area of the form, placing the calculated BHL at 2657' FNL & 1308' FWL Sec. 27, T18S, R38E. Since we wish to support the originally submitted BHL (2661' FNL & 1315' FWL) I felt it necessary to further explain the original footages.

As I've highlighted on Form C-105, measured total depth is 19' deeper than the last measured point identified in the enclosed directional survey. (Additional hole was made after running the multi-shot survey.) This extra 19' translates to a small further displacement along the wellbore path. BH coordinates were interpolated from the last measured depth. (Interpolation calculations are attached.) Therefore, we believe that the BHL is more properly 2661' FNL & 1315' FWL of Section 27.

Should additional information be required, please advise.

5/17/91

To: Marcus Winder

Thanks for calling this to our attention.
The BHL of 2661' N + 1315' W of Sec 27 is OK.

Evelyn

Attachments

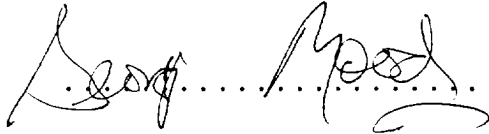
Marcus
MARCUS WINDER

SCIENTIFIC DRILLING INTERNATIONAL
MIDLAND, TEXAS

SHELL WESTERN E. & P., INC.

Well Name : NORTH HOBBS UNIT #27-221W
Location : LEA COUNTY, NEW MEXICO
:
:
Date Surveyed :
Job No. :
:

This survey is correct to the best of my knowledge
and is supported by actual field data.

..... COMPANY REPRESENTATIVE

Client : SHELL WESTERN E&P, INC.
 Well Name : NORTH HOBBS UNIT #27-221W
 Location : LEA COUNTY, NEW MEXICO

Page 1 of 2
 Date
 Filename : NHU27221

No Interpolation

MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
0	0.00	N 0.00°E	0.00	0.00	0.00	0.00	0.0
185	0.20	N19.37°W	185.00	0.30	-0.11	-0.22	0.1
275	0.73	N64.02°W	275.00	0.70	-0.67	-0.90	0.7
365	0.43	N55.90°W	364.99	1.14	-1.47	-1.80	0.3
455	0.35	N39.96°W	454.99	1.54	-1.93	-2.38	0.1
545	0.35	N28.62°W	544.99	2.00	-2.23	-2.84	0.1
635	0.29	S46.92°W	634.99	2.08	-2.53	-3.14	0.6
725	0.41	S30.38°W	724.99	1.65	-2.86	-3.28	0.2
815	0.62	S50.01°W	814.98	1.06	-3.40	-3.54	0.3
905	0.48	S75.87°W	904.98	0.65	-4.14	-4.06	0.3
995	0.30	S11.02°W	994.98	0.33	-4.55	-4.31	0.5
1085	0.14	N76.05°W	1084.98	0.13	-4.70	-4.37	0.4
1175	0.12	S51.54°W	1174.97	0.09	-4.88	-4.53	0.1
1265	0.30	N86.75°W	1264.97	0.05	-5.19	-4.79	0.2
1355	0.45	N35.11°W	1354.97	0.35	-5.63	-5.32	0.4
1445	0.75	S88.81°W	1444.97	0.63	-6.42	-6.15	0.7
1535	0.74	S32.59°W	1534.96	0.13	-7.32	-6.79	0.8
1625	0.77	S37.15°W	1624.95	-0.85	-8.00	-7.03	0.1
1786	1.33	S32.30°W	1785.93	-3.29	-9.65	-7.60	0.4
1880	4.65	S49.62°E	1879.81	-6.68	-7.33	-4.14	4.9
1974	8.64	S69.12°E	1973.17	-11.67	2.17	6.56	4.8
2068	12.36	S68.43°E	2065.58	-17.89	18.13	23.68	4.0
2193	14.68	S67.61°E	2187.11	-28.84	45.22	52.90	1.9
2287	15.60	S68.72°E	2277.85	-37.96	68.01	77.44	1.0
2381	17.45	S69.37°E	2367.96	-47.52	92.98	104.16	2.0
2475	19.07	S72.71°E	2457.23	-57.05	120.84	133.52	2.1
2569	20.28	S73.34°E	2545.74	-66.28	151.11	164.99	1.3
2663	21.11	S71.62°E	2633.67	-76.29	182.78	198.06	1.1
2757	22.89	S70.61°E	2720.82	-87.70	216.09	233.18	1.9
2851	24.29	S73.07°E	2806.97	-99.40	251.83	270.65	1.8
2945	23.96	S70.10°E	2892.76	-111.53	288.28	308.94	1.3
3039	24.36	S71.77°E	2978.53	-124.09	324.64	347.32	0.8
3133	24.27	S67.91°E	3064.19	-137.42	360.96	385.95	1.7
3227	24.29	S66.76°E	3149.88	-152.31	396.62	424.60	0.5
3321	25.08	S66.18°E	3235.29	-167.99	432.61	463.86	0.9
3415	24.92	S66.92°E	3320.48	-183.80	469.06	503.58	0.4
3509	23.99	S63.06°E	3406.05	-200.22	504.31	542.45	2.0
3603	22.70	S63.27°E	3492.36	-217.03	537.55	579.62	1.4
3697	21.00	S59.92°E	3579.60	-233.64	568.33	614.44	2.2
3791	19.81	S61.10°E	3667.71	-249.78	596.85	647.00	1.3

Client : SHELL WESTERN & P., INC.
Well Name : NORTH HOBBS UNIT #27-221W
Location : LEA COUNTY, NEW MEXICO
:
:

Page 2 of 2
Date
Filename : NHU27221

No Interpolation

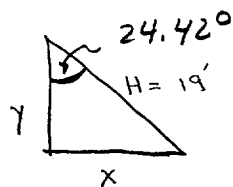
MD	INC	DIR	TVD	+N/-S	+E/-W	VS D'LEG
ft	deg	deg	ft	ft	ft	ft °/100
3885	19.21	S59.65°E	3756.31	-265.29	624.14	678.18 0.8
3979	18.55	S55.65°E	3845.25	-281.54	649.83	708.18 1.5
4073	18.20	S52.95°E	3934.46	-298.82	673.89	737.08 1.0
4167	18.58	S55.18°E	4023.66	-316.22	697.90	765.98 0.9
4261	19.01	S52.09°E	4112.65	-334.18	722.28	795.43 1.2
4355	20.09	S56.08°E	4201.24	-352.59	747.75	826.08 1.8
4449	19.41	S56.08°E	4289.71	-370.32	774.11	857.27 0.7
4543	24.42	S56.08°E	4376.89	-389.89	803.21	891.71 5.3

Origin of Bottom Hole Closure PLATFORM CENTRE
Bottom Hole Closure 893 ft S64.11°E

BHL Calculations - N. Hobbs Unit 27-221
API #30-025-30410

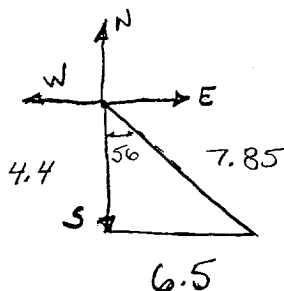
last survey @ 4543' MD

Inclination 24.42° Dir $S56.08^\circ E$



$$x = 7.85'$$

$$\gamma = 17.3'$$



$$\begin{array}{r} \uparrow N \\ -389.89 \\ \hline 4.40 \\ -394.29 \\ \\ 803.21 \\ \hline 6.50 \\ 809.71 \end{array}$$

$$\begin{array}{r} \text{TVD} = 4376.89 + \\ \hline 17.30 \\ 4394.19 \end{array}$$

TD is at approximately

4562 MD

4394.19 TVD

394.29' South of Surface location } = 2661 FNL & 1315' FNL
809.71' East of Surface location }

1900.6' with angle of $564.04^\circ E$