

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

BLM - SANTA FE

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_2. NAME OF OPERATOR  
**Shell Oil Company**3. ADDRESS OF OPERATOR  
**P. O. Box 1509, Midland, Texas 79701**4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **1980' PSL & 660' FWL, Section 22, T-8-S, R-30-E, NMPM,**  
**Chaves County, New Mexico**  
At top prod. interval reported below **Same**  
At total depth **Same**

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUDDED **10-29-68** 16. DATE T.D. REACHED **11-23-68** 17. DATE COMPL. (Ready to prod.) **11-30-68** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **4152' DF 4139' GR** 19. ELEV. CASINGHEAD \_\_\_\_\_20. TOTAL DEPTH, MD & TVD **8050'** 21. PLUG, BACK T.D., MD & TVD **3505'** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **0' - 8050'** ROTARY TOOLS \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**3440' - 3456'** 25. WAS DIRECTIONAL SURVEY MADE **No**26. TYPE ELECTRIC AND OTHER LOGS RUN  
**GR/CCL; Acoustilog/Neutron - GR; Densilog; MLL & LL** 27. WAS WELL CORED **No**

## CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	275'	17-1/2"	Circulated Cement	125
9-5/8"	36#	2825'	12-1/4"	Circulated Cement	---
4-1/2"	10.5#	3546'	8-3/4"	Circulated Cement	---

LINER RECORD				TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
					2"	3307'
						PACKER SET (MD)
						3307'

31. PERFORATION RECORD (Interval, size and number)  
**3440', 3442', 3446', 3450', 3455', 3456'**  
**(6 holes) 1/2" jet shots**

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3440' - 3456'	3000 gal. 28% Acid w/additive
3440' - 3456'	700 gal. Fresh water w/1 gal. A-130.

PRODUCTION							WELL STATUS (Producing or shut-in)
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						
12-1-68	Pumping						Producing
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-10-68	24	---	---	28	TSTM	67	TSTM
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	WATER-GAS RATIO	WATER-PROD. RATIO
---	---	---	28	TSTM	---	---	---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
**Vented**35. LIST OF ATTACHMENTS  
**Logs, deviation record**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data.  
Original Signed By **J. D. Duren** TITLE **Staff Petrophysical Engineer** DATE **December 12, 1968**  
SIGNED **J. D. DUREN**

ACCEPTED FOR RECORD (See Instructions and Spaces for Additional Data on Reverse Side)

**J. D. Duren**  
District EngineerU. S. GEOLOGICAL SURVEY  
SANTA FE, NEW MEXICO

DEC 13 1968

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: 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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
San Andres	3440'	3470'	Oil Bearing	Base Red Beds	1040'	+3112'
San Andres	3500'	3546'	Water Bearing	Yates	1570'	+2582'
Glorieta	3987'	4011'	Water Bearing	San Andres	2718'	+1434'
Bough "C"	7941'	7952'	Water Bearing	San Andres Mkr.	3264'	+ 888'
				S. A. Slaughter	3416'	+ 736'
				Glorieta	3987'	+ 165'
				Drinkard	5556'	-1404'
				ABO	6390'	-2238'
				Wolfcamp Mkr.	7340'	-1188'
				Bough "C"	7870'	-3718'
				TD	8050'	-3898'



BYRON JACKSON INC.

CEMENTING AFFIDAVIT

I, R.K. Cross, being of lawful age and having full knowledge of the facts herein below set out do state: I am employed by Byron Jackson Inc. On October 29th, 19 68, BYRON JACKSON INC. performed the cementing operation herein described for Shell Oil Company on their Well No. 3 on the Hodges Federal C Lease lease located in Chaves County, State of New Mexico.

CASING CEMENTING: Name or type of string was Surface. Information provided by the Customer Company states that the casing was 13-3/8" 13-3/8" O.D. set in 17 1/2" inch hole, and that the casing depth set was 275 feet. For this job the following materials were used:

350 Sacks Lone Star Incor Cement- with 2 % Calcium Chloride

An estimated 125 sacks of excess cement was circulated out of the well.

CEMENT PLUG: Information provided by the Customer Company states that the hole size was \_\_\_\_\_ inches, and total depth was \_\_\_\_\_ feet. For this job the following materials were used to place plugs as indicated:

Plug from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. with \_\_\_\_\_ sacks of \_\_\_\_\_

SIGNED: BYRON JACKSON INC.

BY-

R.K. Cross

DATE: 10-29-68



BYRON JACKSON INC.

CEMENTING AFFIDAVIT

I, Ken Wyrick, being of lawful age and having full knowledge of the facts herein below set out do state: I am employed by Byron Jackson Inc. On November 22, 2, 1968, BYRON JACKSON INC. performed the cementing operation herein described for Shell Oil Company on their Well No. 1 on the Hodges- Fed- C- lease located in Chaves County, State of New Mexico.

CASING CEMENTING: Name or type of string was Intermediate. Information provided by the Customer Company states that the casing was 9-5/8" in. O.D. set in 12 1/4" inch hole, and that the casing depth set was 2825 feet. For this job the following materials were used:

2140 Sacks Lone Star Incon Cement- With 4% Gel in 1940 Sacks

An estimated - sacks of excess cement was circulated out of the well.

CEMENT PLUG: Information provided by the Customer Company states that the hole size was - inches, and total depth was - feet. For this job the following materials were used to place plugs as indicated:

Plug from - ft. to - ft. with - sacks of -

SIGNED: BYRON JACKSON INC.

BY- Ken Wyrick

DATE: 11-2-68



BYRON JACKSON, INC.

CEMENTING AFFIDAVIT

I, R.K. Cross, being of lawful age and having full knowledge of the facts herein below set out do state: I am employed by Byron Jackson Inc. On November 26, 19 68 BYRON JACKSON INC. performed the cementing operation herein described for Shell Oil Company on their Well No. 3 on the Hodges Federal C. Lease lease located in Chaves County, State of New Mexico.

CASING CEMENTING: Name or type of string was Plug Back & Oil String. Information provided by the Customer Company states that the casing was 1 1/2 in. O.D. set in 8-3/4 inch hole, and that the casing depth set was 3800 feet. For this job the following materials were used:

320 Sacks Lone Star Incon Cement 17 Sx Salt

An estimated - sacks of excess cement was circulated out of the well.

CEMENT PLUG: Information provided by the Customer Company states that the hole size was \_\_\_\_\_ inches, and total depth was \_\_\_\_\_ feet. For this job the following materials were used to place plugs as indicated:

Plug from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. with \_\_\_\_\_ sacks of \_\_\_\_\_

SIGNED: BYRON JACKSON INC.

BY- R. K. Cross

DATE: 11-26-68

## NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR Shell Oil Company ADDRESS Box 1509, Midland, Texas 79701  
FIELD CATO LEASE Hodges Federal WELL NO. C-3  
LOCATION 660' FWL & 1980' FSL, Sec 22, T-8-S, R-30-E, Chaves County, N. Mex.

MEASURED DEPTH	INCLINATION ANGLE	DEVIATION RECORD			
		SINE-ANGLE	DISTANCE LAST SURVEY	DISPLACEMENT THIS INTERVAL	CUMULATIVE DISPLACEMENT
166	1/2	0.00873	166	1.45	1.45
401	1/4	0.00436	235	1.02	2.47
930	3/4	0.01309	529	6.92	9.39
1427	3/4	0.01309	497	6.51	15.90
1677	1	0.01745	250	4.36	20.26
1927	1-1/4	0.02181	250	5.45	25.71
2209	2	0.03490	282	9.84	35.55
2365	1/2	0.00873	156	1.36	36.91
2645	3/4	0.01309	280	3.67	40.58
2825	3/4	0.01309	180	2.36	42.94
2909	3/4	0.01309	84	1.10	44.04
3344	1/4	0.00436	435	1.90	45.94
3841	1/2	0.00873	497	4.34	50.28
4309	3/4	0.01309	468	6.13	56.41
4920	3/4	0.01309	611	8.00	64.41
5683	3/4	0.01309	763	9.99	74.40
6075	1-1/4	0.02181	392	8.55	82.95
6454	3/4	0.01309	379	4.96	87.91
6724	1-1/2	0.02618	270	7.07	94.98
6916	2	0.03490	192	6.70	101.68
7150	1	0.01745	234	4.08	105.76
7246	3/4	0.01309	96	1.26	107.02
7457	1-1/2	0.02618	211	5.52	112.54
7618	1	0.01745	161	2.81	115.35
7786	1-1/4	0.02181	168	3.66	119.01
8000	1-1/4	0.02181	214	4.67	123.68

Certification of personal knowledge of Deviation Record:

I hereby certify that I have personal knowledge of the data and facts placed on this form, and that such information is true and complete.

Signature

A. W. Thompson, Inc.

Company

STATE OF TEXAS  
COUNTY OF MIDLAND

Before me, the undersigned authority, on this day personally appeared J. D. Duran, known to me to be the person whose name is subscribed hereto, who, after being duly sworn, on oath states that he is acting at the direction and on behalf of the operator of the well identified in this instrument and that such well was not intentionally deviated from the vertical.

Signature

Title

Sworn and Subscribed to before me, this the 10th day of December, 19 68

Notary Public in and for Midland County,  
Texas.