Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

RECEIVED
BLM FARMINGTON
87 JUL 16 AM 10:22
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ]

5. LEASE DESIGNATION AND SERIAL NO.: SF 079549

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Phillips 32

9. WELL NO.: 9

10. FIELD AND POOL, OR WILDCAT: West Lindrith Dak/Gal Pool

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec.32, T25N, R3W

2. NAME OF OPERATOR: Joseph B. Gould

3. ADDRESS OF OPERATOR: c/o R. Simmons P.O. Box 48, Farmington, NM 87499

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 660' FSL & 820' FEL
At top prod. interval reported below: Same
At total depth: Same

14. PERMIT NO. / DATE ISSUED

12. COUNTY OR PARISH: Rio Arriba
13. STATE: NM

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
5-18-87	6-1-87	6-19-87	7061 GR 7073 KB	7061

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7950	7902		→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Top Gallup @ 6692 Top Dakota @ 7562
Btm Gallup @ 7000 Btm Dakota @ 7812

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction Electric, Compensated Density, Gr, CCL-CBL-GR

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24	308	12-1/4	See Attachment A	
4-1/2"	11.6	7944.11'	7-7/8	See Attachment A	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	7548.72 KB	NA

31. PERFORATION RECORD (*Interval, size and number*)
See Attachment A

JUL 20 1987
OIL CON. DIV.
DIST. 3

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See Attachment	A

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
7-13-87	Swabbing	Shut in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-13-87	6	2"		42	10 est	75 frac	238 scf/bbl

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
45	1050		168	40	300 frac	38.5 est

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Vented during test

TEST WITNESSED BY: John Shipley

35. LIST OF ATTACHMENTS
Logs mailed direct by logging company. Attachment A

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED R. D. Simmons TITLE Agent DATE 7-15-87

R. D. Simmons

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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.

NMOCC

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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Picture Cliffs	3355	3370	gas
Gallup	6692	7000	gas & oil
Dakota	7562	7815	gas & oil

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2770	Same
Fruitland	2925	"
Picture Cliffs	3355	"
Lewis Shale	3455	"
Chacra	4255	"
Cliff House	4820	"
Menefee	5020	"
Point Lookout	5535	"
Mancos Shale	5755	
Gallup	6692	"
Greenhorn	7540	"
Dakota	7630	"

ATTACHEMENT A

JOSEPH B. GOULD

PHILLIPS 32 # 9
660' FSL & 820' FEL SEC. 32, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
WEST LINDRITH GALLUP/DAKOTA FIELD

ELEVATION 7061' GR.

SURFACE CASING AND CEMENT REPORT

Spud well 1:45 PM 5/18/87,
Drilled 12-1/4" hole to 314' KB. Ran 7 joints 8-5/8" 24#/ft. H40, ST&C, R3 casing and set at 308' KB. Halliburton cemented casing with 194 sacks (229 cu. ft.) Class B neat cement. Circulated 81 sacks (95.6 cu. ft.) cement to surface. Plug down at 10:25 PM 5-18-87.

PRODUCTION CASING AND CEMENT RECORD

Ran IEL & CDL. Loggers TD 7951'
Drillers TD 7950'.
Ran 196 joints, 4-1/2", 11.6#, K55, LTC, R3 casing (7948.58' plus 3.53' float equipment) Landed at 7944.11' KB. (KB = 12') Float collar at 7902.11' and stage tool at 5782.48'. Circulated hole for 1-1/4 hours with good returns. Rigged up Dowell and cemented 1st stage w/ 10 bbls CaCl H2O, 10 bbls fresh water and 20 bbls zone lock, 10 bbls fresh water, 600 sacks Class "B" (876 cu. ft.) 50/50 poz., 2% gel, 8#/sk. salt, 6-1/4 lb/sk kolite mixed at 13.4 #/gal, displaced cement w/ 30 bbls fresh water and 93 bbls. drilling mud (123 bbls total). Landed plug with 1470 psi @ 9:04 AM. Dropped openeing plug at 9:11 AM. Good returns throughout 1st stage. Open DV Tool at 9:46 AM w/ 970 psi. Circulated 7-1/4 hours waiting on cement as per BLM. Cemented 2nd stage as follows: Pumped 20 bbls fresh water, 779 sacks (2197 cu. ft.) Class "B" 65/35 poz. , 12% gel, 10#/sk. Kolite mixed at 11.2 #/gal. followed by 150 sacks (177 cu. ft.) Class "B" neat cement mixed at 15.6#/gal. Lost circulation with 779 sacks of lead cement mixed, switched to tail in cement and mixed at 4 bpm, displaced with 90 bbls fresh water at 4 bpm, 1st 60 bbls and 2 bpm for remaining 30 bbls. Did not regain circulation, hole remained full. Plug down at 7:15 PM. Pressured up to 2800 psi on casing and closed stage tool Released pressure and held. Fluid level dropping very slowly Set slips with 83,000 lbs. Cut off casing with Aztez welder.

Top of cement on first stage @ 5782 by CBL.
Top of cement on secont stage @ surface by braiden head squeeze.

ATTACHMENT A

DAKOTA PERFORATIONS AND STIMULATION

Perforated Dakota Formation from 7562' to 7812' as follows:

7562 to 7578	8 shots
7632 to 7644	8 shots
7714 to 7722	8 shots
7792 to 7812	11 shots

Total of 35 0.38" holes.

Acidize down casing with 1500 gallons 15% HCL acid.

Fracture treated down casing @ 45 BPM with 40# cross-linked gel, 1% KCL, 1gal./1000 gal surfactant, 1 gal./1000 gal NE agent as follows:

20,000 gallons PAD 25#/1000 FLA
10,000 gallons w/ 1/2#/ga; 20/40 sand 25#/1000 FLA
10,000 gallons w/ 1#/gal
20,000 gallons w/2#/gal
10,000 gallons w/3#/gal.

Flush to top perforation. Total sand 85,000 in 70,000 gal gel.

GALLUP PERFORATIONS AND STIMULATION

Perforate Gallup formation from 6716' to 7000' with 1 shot at:

6716 6724 6730 6736 6740 6744 6748 6760 6770 6776 6780

6786 6792 6802 6808 6824 6854 6868 6876 6882 6890 6896

6900 6904 6908 6916 6926 6934 6946 6962 6974 6978 6984

6994 7000

Total of 35 0.38" holes.

Acidized down casing with 2500 gallons 15% HCL.

Fracture treated down casing at 60 BPM using 1% KCL water 25#/1000 FLA and 2-1/2#/1000 gal FR as follows:

25,000 gallons PAD	25#/1000 FLA
10,000 gallons w/ 1/2 # /gal 20/40	25#/1000 FLA
20,000 gallons w/ 1# /gal	
20,000 gallons w/ 1-1/2#/gal	
20,000 gallons w/ 2# /gal	

Flush to botton perforation. Total sand 95,000# 20/40 in 95,000 gallons slick water.