Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR: Alex N. Campbell

3. ADDRESS OF OPERATOR: 136½ North Larchmont Blvd., Suite A, Los Angeles, CA 90004

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1450' FNL & 790' FEL

5. LEASE DESIGNATION AND SERIAL NO.: NM 02691

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tonkin Federal

9. WELL NO.: #1-E

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 23, T27N, R12W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

12. COUNTY OR PARISH: San Juan

13. STATE: NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☒	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Run logs, etc.			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHED SHEET

DEC 03 1984
OIL CON. DIV.
DIST. 3

RECEIVED
NOV 14 1984
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

18. I hereby certify that the foregoing is true and correct

SIGNED Alvin L. McCord TITLE Agent DATE 11-15-84

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NOV 30 1984

FARMINGTON RESOURCE AREA

BY _____

*See Instructions on Reverse Side

NMOCC

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.

11-10-84 Move in and rig up Bayless Rig #6. Nipple up wellhead and BOP. Picked up 3-7/8" bit, casing scraper and 43 jts of 1½" tubing. Shut down for weekend.

11-11-84 S.D. Sunday

11-12-84 Picked up 1½" tubing. Tagged cement above D.V. tool at 4349'. Pressure tested to 3500 psi - held ok for 10 minutes. Drilled 59 feet of cement. Tagged D.V. tool @ 4408'. Drilled D.V. tool. Rigged up Smith Energy Services. Pressure tested casing and wellhead to 3500 psi - held OK for 5 minutes. Picked up 1½" tubing. Tagged cement above D.F.F.C. @ 6194'. Drilled 26' of cement and tagged D.F.F.C. @ 6220'. Pressure tested casing to 3500 psi - held OK for 5 minutes. Circulated hole clean with 1% KCL water. Moved tubing to 6174'. S.D.F.N.

11-13-84 Spotted 500 gallons of 7½% D.I. HCL acid over the Dakota perforation interval. Trip 1½" tubing out of hole. Rigged up Petro Wireline. Ran G.R.-CLL from PBTD of 6216' to 5900'. Perforated Dakota interval from Density log with 3-1/8" casing gun as follows:

6095'	6147'	6160'
6097'	6151'	
6099'	6152'	6172'
	6153'	6174'
6111'	6154'	
6114'	6155'	
	6156'	
6129'	6157'	
6131'	6158'	

Total of 19 holes, 0.34" diameter.

Tripped in hole with Baker strattle packer on 1½" tubing.

Set strattle packers in the following 5 settings:

	Top Packer	Bottom Packer	Perf Interval	# of Perfs	Breakdown	ISIP	Rate	Remarks
1.	6166	6188	6172-74'	2	2200 psi	950psi	2.3 BPM @ 2550psi	Saw some communication
2.	6142	6164	6147-60'	10	Immediate	1050psi	2.3 BPM @ 2450psi	Main Dakota zone
3.	6120	6142	6129-31'	2	Immediate	700psi	1.6 BPM @ 3200psi	
4.	6103	6125	6111-14'	2	3000 psi	800psi	Initial 1.9 BPM @ 3300psi Final 2.0 BPM @ 2400psi	Saw communication-difference in initial and final rate probably due to communition.
5.	6083	6105	6095-99'	3	Immediate	800psi	1.3 BPM @ 3200psi	

Moved strattle packers above perforations. Pressure tested packers to 3500 psi. Held OK. Displaced remaining acid in the perforations down the annulus. Rate 2.9 BPM @ 1000 psi, ISIP - 850 psi. (Fracture gradient is 0.57 psi/ft). Tripped tubing and strattle packers out of hole. SDFN.

11-14-84 Rigged up Smith Energy Services. Fracture stimulated the Dakota formation with 55,000 gallons of 30 lb/gal cross linked gel with 1% KCL water containing 95,000 lbs of 20-40 mesh sand down the casing as follows:

10,000 gallons of cross-linked gel water pad	32 BPM @ 2600 psi
10,000 gallons of 1 ppg 20-40 mesh sand	33 BPM @ 2500 psi
20,000 gallons of 2 ppg 20-40 mesh sand	32 BPM @ 2400 psi
15,000 gallons of 3 ppg 20-40 mesh sand	32 BPM @ 2250 psi
4,069 gallons of flush with slick water	32 BPM @ 2400-2800 psi

ISIP = 1800 psi, 5 minute shutin = 1650 psi, 10 minute shutin = 1500 psi, 15 minute shutin = 1450 psi. Average rate 32 BPM. Average pressure 2400 psi. Maximum pressure 2800 psi. Minimum pressure 2150 psi. Load fluid to recover is 1406 bbl. Shut well in overnight to allow fracture to heal. SDFN.