

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.6.

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract #111

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla

9. WELL NO.

105

10. FIELD AND POOL, OR WILDCAT

W. Lindrith-Gallup/Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

6-24N-4W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

**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 ARCO Oil & Gas Company  
Division of Atlantic Richfield Company3. ADDRESS OF OPERATOR Suite 501  
1860 Lincoln Street, Denver, Colorado 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1650' FSL &amp; 660' FEL (NE SE) Unit I

At top prod. interval reported below

Approx the same

At total depth

API#30-039-22070

14. PERMIT NO.

DATE ISSUED

Mr. Barrick

6-19-79

15. DATE SPUDDED

10-17-79

16. DATE T.D. REACHED

11-4-79

17. DATE COMPL. (Ready to prod.)

1-2-80

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

6810' KB 6796' GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD &amp; TVD

7430' TD

21. PLUG, BACK T.D., MD &amp; TVD

7390' PB

22. IF MULTIPLE COMPL., HOW MANY\*

1

23. INTERVALS DRILLED BY

ROTARY TOOLS

0-7430'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

Gallup 6120'-6223' &amp; 6281'-6336'; Dakota 7291'-7273' &amp; 7229'-7261'

25. WAS DIRECTIONAL SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

DI-SFL; FDC/CNL-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#	309'	13-1/2"	300 SXS	NONE
5-1/2"	17# & 15.5#	7429'	7-7/8"	650 SXS	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
NONE				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	7214'	NONE

31. PERFORATION RECORD (Interval, size and number)

Dakota	7291'-7273'	16 holes
Dakota	7229'-7261'	19 holes
Gallup	6108' (squeeze)	4 holes
Gallup	6281'-6336'	31 holes
Gallup	6120'-6223'	40 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7290'	Spot 350 gals 15% MCA
7229'-7291'	97Mgals 1%KCL + add. & 90M# Sand
6108'	Spot 250 gals 15% MCA
6108' (squeeze)	120 sxs Class "B" w/.6% Halad-9

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					(OVER)	
12-21-79		Pumping		1-1/2" pump		WELL STATUS (Producing or (OVER)		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
1-2-80	24 hr	---	→	50	232	40	4640 : 1	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
100#	100#	→	50	232	40	46.7 @ 60°		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

C. R. Thompson, Jr.

35. LIST OF ATTACHMENTS

2 of #26 above and Daily Well History

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

SIGNED

W. A. Walther, Jr.

TITLE Operations Manager

DATE 1-9-80

JAN 21 '80

\*(See Instructions and Spaces for Additional Data on Reverse Side) DURANGO, COLO.

DISTRICT

BY

State

# 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
NO CORES AND NO DST'S				Pictured Cliffs	2831'	
				Lewis	2888'	
				Chacra	3668'	
				Mesa Verde	4463'	
				Upper Mancos	5187'	
				Gallup	6123'	
				Greenhorn	6986'	
				Graneros	7050'	
				Dakota	7210'	
				Burro Canyon	7309'	
				Morrison	7408'	
#32. Continued:						
6281'-6336'	1M gals 15% MCA + add. & 60 ball sealers					
6281'-6336'	67.2M gals 1% KCL + add. & 136M# Sand					
6108'	Spot 250 gals 15% MCA					
6108' (squeeze)	125 sxs Class "B" w/ .6% Halad-9					
6120'-6223'	2M gals 15% HCL + add. & 80 ball sealers					
6120'-6223'	106M gals 1% KCL + add. & 186M# Sand					

## 38. GEOLOGIC MARKERS

10/18/79	320	Cmtg surf csg, sd & sh. Spud 3 pm 10/17/79. Ran 9 jts 8-5/8" 24# K-55 ST&C & GS (314') baffle plate, 3 cent, landed csg @ 309' KB (KB to GL 14'). 3/4° @ 320'. 120 RPM, 10M#. Mud: 8.9#, vis 50, LCM 3%. B#1, 13-1/2", HTC, OSC3, made 320' in 6-1/2 hrs.
10/19/79	400	Drlg sd & sh. Cmtg w/300 sx Cl "B", 2% CaCl, 1/4# flocele/sx. PD 6:15 am 10-18-79. Press tstd blind & pipe rams to 1000#, OK. 90 RPM, 10M#. Mud: 8.9#, vis 36, WL 8, FC 1/32, Salt 500, Ph 9, Pv 8, Yld 5, Gels 0/1, solids 4%, Ca 60, oil 6%. (B#2).
10/20/79	2016	Drlg sd & sh. 2-3/4° @ 863' & 1310', 1-1/4° @ 1687'. 90 RPM, 20M#. Mud: 8.4#, vis 43, WL 6, FC 2/32, Sd-tr, salt 450, Ph 8.5, Pv 12, Yld 4, Gels 0/2, solids 3%, Ca 60, oil 7%. B#2, 7-7/8", HTC, OSC3, made 990' in 11-1/2 hrs. (B#3).
10/21/79	2920	Drlg sd & sh. 1/4° @ 2355' & 2770'. 90-60 RPM, 20-40M#. Mud: 9#, vis 41, WL 6.4, FC 2/32, Sd-tr, salt 400, Ph 8, Pv 11, Yld 4, Gels 1/5, solids 3%, Ca 40, oil 7%. B#3, 7-7/8", Sm., DGT, made 1015' in 16-1/2 hrs. (B#4).
10/22/79	3295	Circ'g & mixing mud, sd & sh. 10 DCs in hole, circ'g & cond mud. WO overshot to latch onto fish. 2° @ 3291'. 65 RPM, 40M#. Mud: 9.3#, vis 46, WL 4, FC 2/32, Sd-tr, salt 450, Ph 8, Pv 14, Yld 6, Gels 2/6, solids 3%, Ca 80, oil 6%. (B#4).
10/23/79	3529	Drlg sd & sh. WIH w/bit after rec'g fish & had bridge 60' off btm & 20' fillup. 65 RPM, 40M#. Mud: 9.1#, vis 41, WL 5, FC 2/32, Sd-tr, salt 500, Ph 8, Pv 11, Yld 4, Gels 1/5, solids 3%, Ca 40, oil 6%. (B#4).
10/24/79	4167	Drlg sd & sh. 3° @ 3795'. 65 RPM, 40M#. Mud: 9.1#, vis 42, WL 5, FC 2/32, Sd tr, salt 450, Ph 8, Pv 10, Yld 3, Gels 2/7, solids 3%, Ca 40, oil 6%. (B#4).
10/25/79	4647	Drlg sd & sh. 2-1/4° @ 4364'. 65 RPM, 40M#. Mud: 9.0#, Vis 39, WL 4.8, FC 2/32, Sd tr, Salt 450, Ph 8.0, Pv 11, Yld 4, Gels 1/5, Solids 3%, Ca 40, Oil 6%. (B#4)
10/26/79	5170	Trip f/bit, sd & sh. 2° @ 4929'. 65 RPM, 40M#. Mud: 9#, vis 40, WL 5, FC 2/32, Sd-tr, salt 500, Ph 8, Pv 13, Yld 3, Gels 1/6, solids 3%, Ca 60, oil 6%. B#4, 7-7/8, Hughes, J-22, made 2815' in 102 hrs.
10/27/79	5580	Drlg sd & sh. 2° @ 5170'. 60 RPM, 40M#. Mud: 9.1#, vis 41, WL 5.5, FC 2/32, Sdtr, salt 300, Ph 8, Pv 14, Yld 4, Gels 1/6, solids 3.5%, Ca 80, oil 6%. B#5).
10/28/79	5805	WO repairs; rig brkn dn, shafe in draw works brkn, pipe on btm, cont circ'g. Expect repairs tomorrow. 60 RPM, 40M#. Mud: 9.1#, vis 41, WL 4.8, FC 2/32, Sdtr, salt 400, Ph 8, Pv 11, Yld 3, Gels 1/6, solids 4%, Ca 40, oil 6%. (B#5).
10/29/79	5805	Repairing rig, circ'g, WO shaft. Mud: 9.1#, vis 55, WL 4.8, FC 2/32, Sdtr, Salt 300, Ph 8, Pv 14, Yld 7, Gels 4/15, solids 4%, Ca 40, oil 6%. (B#5).
10/30/79	5980	Drlg sd & sh. Fin repairing rig & resumed drig. 1° @ 5903'. 60 RPM, 40M#. Mud: 9#, vis 40, WL 4.4, FC 2/32, Sd-tr, salt 300, Ph 8.5, Pv 20, Yld 12, Gels 1/3, solids 4%, Ca 40, oil 6%. (B#5).
10/31/79	6470	Drlg, Gallup. Lost 200 BM @ 6317' & 100 BM @ 6400'. 3° @ 6437'. 60 RPM, 40M#. Mud: 9#, vis 46, WL 6.4, FC 2/32, salt 400, Ph 8, Pv 18, Yld 10, Gels 3/5, solids 4%, Ca 80, oil 6%. (B#5)
11/1/79	6942	Drlg, Greenhorn fm. 60 RPM, 40M#. Mud: 9.1#, vis 40, WL 6, FC 2/32, Sd-tr, salt 300, Ph 9, Pv 15, Yld 7, Gels 1/9, Solids 4%, Ca 40, oil 6%. (B#5).
11/2/79	7154	Drlg, Dakota. 1/2° @ 7063'. 60 RPM, 42M#. Mud: 9.3#, vis 48, WL 6.4, FC 2/32, Sd 1/4%, salt 350, Ph 8.5, Pv 16, Yld 6, Gels 3/12, solids 9%, Ca 80, LCM 3%, Oil 7%. B#5, 7-7/8", HTC, J-22, made 1893' in 84 hours. (B#6).
11/3/79	7322	Trip f/bit, Morrison fm. 60 RPM, 40M#. Mud: 9.4#, vis 8, WL 5.6, FC 2/32, Sd 1/4%, salt 500, Ph 8.5, Pv 18, Yld 6, Gels 3/12, solids 10%, Ca 80, LCM 2%, oil 6%. B#6, 7-7/8", Sm., F-5, made 259' in 24-1/2 hrs.
11/4/79	7430	Logging w/Sch, Morrison fm. Drld to 7430' SLM. Cond hole & POH. RU Sch & ran DIL WLTD 7424'. Now rng CNL FDC w/GR. No trouble getting logs in. 1-1/2° @ 7430'. 60 RPM, 40M#. Mud: 9.5#, vis 80, WL 4, FC 2/32, Sd 1/4%, salt 450, Ph 8.5, Pv 36, Yld 16, Gels 3/14, solids 10%, Ca 60, oil 6%, B#7, 7-7/8", Sm., F-5, made 108' in 8-1/2 hrs.

11/5/79 7430 TD - Core'g between stages, Morrison M. Fin logging. TIH. Circ. LD BP. RU & run 5-1/2 csg. Circ'd, Cmt'd 1st stage. Circ'd between stages. Ran 187 jts 5-1/2" csg: 33 jts 17# K-55 R-3 ST&C (1316.51); 154 jts 15.5# K-55 R-3 ST&C (6119.07'); GS; Diff fill clr; DV tool (6.30'); total 7441.88'. DV tool on top Jt #91 @ 3977'. Cntrlzrs on jts 1,3,5,7,9,11,13,15,17,19, 21,23,25,27,90,92,94,96,98 & 100. 2 cmt bskts on #89 & 90. 20 scratchers @ 6910-7310', 20' spacings. 10 scratchers @ 6100' & 6317', 20' spacings. Cmt'd 1st stage w/10 BW & 1000 gals mud flush & 350 sx RFC, 100 bbls slurry, 14.2#/gal. Displ'd w/175 BW. PD 3:30 a.m. 11/5/79. Csg landed @ 7429'KB.

11/6/79 7430 TD - Prep to clean loc. Cmt'd 2nd stage w/10 BW, 1000 gals mud flush & 300 sx RFC, 85 bbls slurry, 14.2#/gal displ'd w/95 BW. PD 7:30 a.m. 11/5/79. Closed DV tool w/2000#. Circ'd gd. RR 10 a.m. 11/5/79, MORT.

11/7/79 7430 TD - Strt setting up prod tks.

11/8/79 7430 TD - Cont installing prod equip. WO completion rig

11/9-23/79 7430 TD - WO completion

11/24/79 7430 TD - Prep to PU tbg & TIH. MI & RU Big 'A' Well Serv. Unloaded & tallied 243 jts 2-3/8" tbg. Instl'd tbg head & NU BOPs.

11/25/79 7430 TD - Cont perf'g Dakota. Ran 129 jts 2-3/8" tbg w/bit & csg scraper & tagged DV @ 3977' & drld same. Cont'd PU tbg & tagged FC @ 7390'. Circ hole clean & displ'd w/1% KCl. POH. Ran Wellex bond log w/var dens. Top cmt @ 6145'. Gd bonding across Dakota zone. TIH w/opn ended tbg to 7290' & sptd 350 gals 15% MCA. POH. Perf'd Dakota w/ 3-12/" OD selective fire gun w/0.32" dia jet shot at foll dpeths: 7291', 90', 88', 87', 86', 85', 84', 83', 82', 81', 79', 78', 77', 75', 74', & 73' by Wellex CBL meas as on log recorded 11/24 & as correlated to Schl CNL-FDC survey recorded 11/2/79. Note: Had 13' correction diff w/CBL deep to CNL-FDC log.

11/26/79 7430 TD - WOC. Perf Dakota w/ 3-1/2" Selec-Fire gun 0.32" dia shots @ foll'g depths: 7229', 30', 31', 32', 33', 34', 35', 36', 37', 42', 43', 44', 45', 46', 57', 58', 59', 60', 61' (19 holes), cont'd page 3.

meas f/Wellex CBL dated 11/24/79, corr'd to Schl CNL-FDC opn hole Tog dated 11/3/79, Frac Dakota perfs w/97,000 gals 1% KCl wtr cont 2#/1000 gals fric reducer & 30#/1000 gals FL add, 90,000# 20/40 mesh sd. Trtd w/total 70,000 gals wtr & 90,000# sd. ISIP 24000#, 5 min 24000#, 10 min 2300#, 15 min 2200#. Max rate 51 BPM @ 3700#. Avg rate 49 BPM @ 3525#. Set HOWCO drillable CIBP @ 7140'. Press tstd to 4000#, OK f/5 mins. Perf 4 holes f/squeeze @ 6108'. TIH w/tbg & RTTS pkr to 6113'. Sptd 250 gals 15% MCA acid. Re-set pkr @ 5850', Brk perfs dn @ 1800#. Estb rate of 4 BPM @ 2800#. Squeezed w/120 sx C1 'B' cmt w/.6% Halad 9. Max & final sq press 2000#. Displ'd w/22 bbls cmt thru perfs. Left 4 bbls cmt in csg. POH 10 stds. Wsh up tools. Re-set pkr 2/2000# on tbg. JC 10:30 pm 11/25/79.

11/27/79 7430 TD - WOC. TIH w/tbg & bit. Tagged cmt @ 5997'. Drld cmt to 6112'. Ran tbg to BP @ 7140'. Circ hole clean POH. RU Wellex Rerun GR correl log.

11/28/79 7390 PB - Prep cmt sq above Gallup perfs. Ran GR-Correl log, jet perf Gallup w/1 hole @ ea. depth: 6281, 82, 84, 86, 88, 89, 90, 92, 94, 96, 98, 6300, 02, 04, 06, 08, 10, 12, 13, 14, 15, 16, 18, 20, 21, 25, 26, 28, 29, 30, & 6336' (31 holes). Ran 2-3/8" tbg, eet pkr @ 6173'. Trtd Gallup perfs 6281-6336 OA w/1000 gals 15% acid plus adds. Fm broke @ 2400#, trtd @ 3 BPM @ 2500#, used 60 ball sealers, good ball action, fm. balled off @ 4000#, ran 4 stds tbg to knock off balls, pulled tbg & pkr. Frac trtd Gallup dn csg, w/67,200 gals 1% KCl Wtr, 25,000# 100 mesh sd & 111,000# 20-40 sd in stages w/additives. Max Press 2600#, AIR - 45 BPM @ 2540#. ISD-1100#, 975# in 15 mins. Set BP @ 6169', unable bleed off press after plug set. Check BP w/wireline, OK. Ran 2-3/8" tbg w/pkr set @ 6157, thawed pump & lines, press tbg to 2500#, OK. Press csg to 2500#, bled to 100# in 5 min. Squeeze perfs @ 6108' probably leaking.

11/29/79 7390 PB - Prep to drill out cmt. Run Bond log to look at squeeze. Set RIIS pkr @ 6077'. Pressured HOWCO lines; lines full of ice, thawed. Re-set pkr @ 6262'. Press tbg to 2400#-held ok for 5 mins. Press csg to 2500# - bled off 1000# in 1-1/5 mins. Re-set pkr @ 6036'. Press csg to 2500# held steady for 5 mins. (squeeze perfs @ 6108' leaking) spotted 250 gals 15% MCA @ 6108'. Broke perfs (4 holes @ 6108') 3800#, est. rate of 4 BPM @ 2700#. Set RTTS pkr @ 5860'. Est rate of 3 BPM @ 2600#. Squeeze w/125 sxs Class "B" Cmt w/.6% Halad-9. Max & final press - 2000#. Placed 23 bbls cmt in fm., left 3 bbls cmt in csg. POH 10 stds, wsh up tools, set pkr, press tbg to 2000#. SI. Job complete 9:30 p.m. 11/28/79. WOC

11/30/79 7390 PB - Prep to run CBL. WOC. TIH w/4-3/4" bit & csg scrapper, tag cmt @ 5996'. Drill cmt 5996'-6054' soft cmt. WOC. Drill cmt from 6054'-6110' - firm cmt. Ran tbg to BP @ 6269'.

12/1/79 7390 PB - RU Wellex & ran CBL w/good bond 6145-6000'. Perf 6120-21, 22, 23, 34, 35, 36, 37, 58, 59, 60, 67, 68, 69, 79, 81, 83, 84, 85, 87, 89, 91, 93, 94, 95, 97, 99, 6201, 07, 08, 09, 10, 11, 12, 12, 19, 20, 21, 22, 23. (40 holes in Gallup). TIH w/RTTS pkr to 6077', RU HOWCO & hauled & gelled wtr.

12/2/79 7390 PB - Thawing HOWCO lines. Treated w/2000 gals 15% HCl w/2 gal/1000 gals iron sequestor & 8 gal/1000 gal clay stabilizer & 2 gal/1000 gals surfactant & 2 gals/1000 gals non-emulsifier & 80 ball sealers. FBDP 1050# & injected @ 15 BPM @ 1500# & treated @ 5 BPM @ 2500# w/good ball action & balled off @ 3800#. Lowered pkr thru perfs & POH. Frac Gallup perfs 6120-6223 w/106,000 gals 1% KCl containing 40#/1000 gals versegel (x-link agent) & 50,000# of 100 mesh sd & 136,000# 20-40 sd as follows:

Gals	Sand	Rate	Pressure
10,000	Pad	38 BPM	2000#
10,000	1#/gal (100 mesh)	36 BPM	2100#
20,000	2#/gal (100 mesh)	36 BPM	2000#
12,000	1#/gal (20-40 sd)	36 BPM	1900#
30,000	2#/gal (20-40 sd)	36 BPM	1900#
12,000	3#/gal (20-40 sd)	36 BPM	1800#

NOTE: At this point shutdown when water became too viscous & lost blender prime. Switched tanks & resumed operation 14 min later.

1,000	gelled wtr	36 BPM	2600#
7,000	4#/gal (20-40 sd)	36 BPM	2000#

Again lost prime on blender lacking 3000 gals 4#/gal sand mix. Flushed job w/6000 gals gelled wtr @ 18 BPM @ 1400#.

ISIP - 1200#, 5 min - 1100, 15 min - 1100

WO gel to break @ 6 AM 12/2 SIP - 550#, opnd to tank on 32/64 chk.

12/3/79 7390 PB - Prep to run tbg & swab. Opn well on 38/64" chk -550# CP. Flwd to tank rec'd 700 bbls load wtr. CP decreased to 0#. TIH w/4-3/4" bit on 2-3/8" tbg. Drill BP @ 6269'. Circ hole cln. Drill BP @ 7140'. Wash & reamed to FC @ 7290' - considerable sand. POH.

12/4/79 7390 PB - To continue to flow for cleanup. Ran 234 jts 2-3/8" EUE 4.7# J-55 tbg set @ 7214' RKE w/2-3/8" API SN @ 7183', btm of tbg is open ended. Swb f/2500'. FL @ surface. Rec'd 48 bbls frac wtr. Well sttd flowing. Flwg thru full open 2" (no chk) pipe. CP last hr 250#. Last 24 hrs. rec'd 508 bbls load wtr. Total load rec'd 1208 bbls, Load yet to recover 5220 bbls. Well making tr of oil & slight show of gas.

12/5/79 7390 PB - To continue flwg & swbg. Flwg to tst tank, full 2" opening, CP 525#. Rec'd 110 bbls frac wtr. Well lagged off. Made 4 swab runs - fld level @ surface. Well started unloading. Flwg, rec'd 94 bbls frac wtr; CP 575# @ 6:00 a.m. Total rec'd 204 bbls fld 99% wtr - 1% oil - trace of gas. Acc rec'y 1412 bbls frac wtr. Yet to recover 5016 bbls.

12/6/79 7390 PB - To cont swbg & flwg for clean up. Flwg thru 2" opn tbg. CP 600#, Rec'd 23 bbls frac wtr w/tr of oil. Swbd. CP 625#. Rec'd 12 bbls heavy gelled wtr. Flwd CP 650#. Rec'd 71 bbls heavy gelled wtr. Swbd. FL 1500'. Pulling swb f/3000'. CP 575#. Rec'd 82 bbls wtr. Flwd, rec'd 21 bbls. Swbd. Rec'd 74 bbls heavy gelled wtr. Trace of oil, CP 800#. Gas breaking thru gelled wtr slightly. No apparent sd coming back. Total fld rec'd 24 hr. 342 bbls. Accum fld rec'y 1754 bbls. Frac fld yet to recover 4674 bbls.

12/7/79 7390 PB - To cont flwg for clean up. Swb f/300'. FL @ 1500'. Rec'd 21 BW. CP 775#. Flwd. CP 875". Rec'd 138 BW, tr of oil full 2" opening. Swb. Rec'd 57 BW. CP 900#. Show of oil & gas. Flwg. CP 1075#. Rec'd 180 BW. 6:00 a.m. sample 5% oil, 95% wtr. 24 hrs. Rec'd 396 BPW. Cum Frac wtr rec'd 2150 bbls. Frac wtr yet to recover 4278 bbls. (Moved CU to #108.)

12/8/79 7390 PB - 3 hrs. flow to swb tank, rec 28 BF 5% oil, 95% frac wtr, csg press 1100#, 21 hrs flwg to prod tanks, rec'd 39BF, 5% oil, well logged off csg press 1300#, total rec'd 67 BF 24 hr. Cum Rec'y 2217 BF, to recover 4211.

12/9/79 7390 PB - Prep to continue flwing to tank, Had 4 hrs well logged off, csg press. 1300#, 2 hrs. MIRU pulling unit, 2 hrs swbbg FL @ 1800', swbg f/3000', rec'd 38 BW, well began flwg, 16 hrs rec'd 249 BW, 28 B0, csg press 725#, in 24 hrs total recov'd 287 BW, 28 B0. Load to recover 3924 BW, have recovered 2504 BW.

12/10/79 7390 PB - Cont. swbg. Flwg. CP #750. Rec'd 75 bbls - 5% oil, 95% wtr. Swb FL @ 3000'. Rec'd 26 bbls load wtr. Flwd. Rec'd 34 bbls - 5% oil, 95% wtr. CP 750#. Swb rec'd 24 bbls. CP 800#. Flwd rec'd 30 bbls CP 725#. Swb FL 3500', scattered, rec'd 17 bbls trace of gas. In 24 hr. total fld rec'd 202 bbls (144 bbls wtr, 58 bbls oil). Accum. rec'y 2706 bbls wtr & 86 bbls oil. Load wtr yet to recover 3722 bbls. \$468,315

12/11/79 7390 PB - Prep to set PU & run rods. Swbd, rec'd 18 bbls (90% wtr, 10% oil), CP 800#; flwd, rec'd 98 bbls (90% wtr, 10% oil), CP 675#. Swbd. rec'd 11 bbls (90% wtr, 10% oil) CP 675#. Flwd, rec'd 43 bbls (90% wtr, 10% oil), CP 650#. Swbd, rec'd 11 bbls (90% wtr, 10% oil) CP 575#. Flwd, rec'd 16 bbls (90% wtr, 10% oil), CP 525#. Total fld rec'd 197 bbls (28 B0 & 169 BW). Accum frac wtr rec'd 2820 bbls. Frac wtr yet to recover, 3553 bbls. Released Big "A" Well Service @ 8:00 a.m. 12/11/79.

12/12-14/79 7390 PB - Sl. WO pmpg unit.

LOCATION: NE SE, 1650' FSL & 660' FEL, Sec. 6-24N-4W

1/3/80 7390- COMPLETED OIL WELL, 1/2/80, Gallup/Dakota Formation.

Test date 1/2/80, 1-1/2" pmp. On 24 hr. tst 50 bbls oil, 40 bbls frac wtr & 232 MCF gas f/Gallup perfs 6120-6223' & 6281-6336' & f/Dakota perfs 7291-7273' & 7229-7261'. TP 100#; CP 100#; Oil Gravity 46.7 API @ 60° F; GOR 4640:1. LPP 7291'.