

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved,
Budget Bureau No. 42-R1424.

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
Continental Oil Company

3. ADDRESS OF OPERATOR
152 North Durbin, Casper, Wyo. 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
810' FNL, 1825' FWL (Unit Letter C)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7025' Gr., 7036' KB

5. LEASE DESIGNATION AND SERIAL NO.
41

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla 30

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Undesignated Gallup

11. SEC., T., R., M., OR LEX. AND
SURVEY OR AREA
Sec. 29, T25N, R4W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

TD 6946' KB. Casing: 8 5/8" OD set at 310' KB, 5 1/2" OD set at 6565', 4 1/2" OD liner set 6512'-6946' (not cemented).

Chronological History of "Blast-Frac" attached.

Recovering load oil at rate of 10 BOPD. Producing 112 MCFGD.



USGS-Durango(5) File

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

SIGNED

TITLE Administrative Section Chief DATE June 16, 1970

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Jicarilla 30 #2 (AFE 12-61-1411)	12-15:	Rigged up Drake Well Service. Pulled 2 3/8" tubing.
	12-16:	Tagged 150' fall. Would not circulate. Prep. to sand pump.
Jicarilla 30 #2 (AFE 12-61-1411)	12-17:	Ran 2 7/8" sand pump. Rec. 4' gray silt in 6 hrs. Waiting on orders.
Jicarilla 30 #2 (AFE 12-61-1411)	12-19:	Ran in with Schlumberger jet casing cutter and cut liner at 6795' KB. Ran 2 1/2" hydril jars on six 3 1/2" collars and 198 jts. 2 3/8" tubing. Jarred on liner for 3 hrs. Left overnight. Set with 65,000# tension.
Jicarilla 30 #2 (AFE 12-61-1411)	12-20:	Moved in power swivel. Ran six 3 1/2" drill collars and 201 jts. 2 3/8" tubing.
Jicarilla 30 #2	12-21:	Milled out Burns liner hanger. Total 2 jts. Pulled out of hole.
	12-22:	Ran Bowen spear, 3 1/2" safety jt, bumper sub and jars. Moved liner up hole 38". SDON with 70,000# on it. Prep. to pull tomorrow if it will come.
Jicarilla 30 #2	12-23	Liner did not move up hole. Pulled out of hole with spear, jars and tubing. Jars would not close. Shut down for jar replacement.
	12-24:	Reran spear, safety jt., bumper sub and replaced 2 7/8" jars. Ran six 3 1/2" drill collars, jar accelerator and 200 jts. 2 3/8" tubing. Moved liner up hole 63". Left 85,000# tension on pulling string. SDON.
	12-25:	85,000# still on string. No liner movement overnight. Continued jarring on liner for another 3 hrs. Could not move liner further. Pulled out of hole with 2 3/8" tubing.
	12-26:	Laid down six drill collars, jars, accelerator, safety jt. and spear. Reran 213 jts. 2 3/8" tubing. Landed on donut. SDON and Christmas.
<u>Jicarilla 30 #2</u>	12-27:	Swabbed well. Rec. approx. 60 bbls. load oil. Fluid and gas entry slow. SDON.
	12-28:	Continuing to swab. Tagged fluid 4500' from surface. Swabbed well dry. Approx. 28 bbls. Total recovery approx. 88 bbls. Total load oil 250 bbls. SDON. and Sunday.
	12-29:	CP 180#, TP 0.

Jicarilla 30 #2	12-30:	Swabbed well dry, approx. 17 bbls. Rec. 105 bbls. Have 145 bbls. to recover, all load oil. Released pulling unit 2 p.m. 12-29-69. Drop from report for pressure buildup.
Jicarilla 30 #2	2-5:	MIRT. Pulled 60 jts. 2 3/8" tubing. Laying down.
	2-6:	Pulling 2 3/8" tubing. Picked up seven 3" drill collars and 200 jts. 2 7/8" drill pipe, spear and jars. Tagged at 6408' and hooked onto liner at 6408'. Pulled 150,000#. Jars tripping at 110,000#. 3 hrs. jarring. Pulled out of hole.
	2-7:	Picked up mill. Went back in hole. Milled from 6408' to 6413'. Came out of hole. Again picked up spear. Went back in hole. Hooked onto the liner with spear. Jarred for 2 hrs. Pulling 150,000#. Jars tripping at 110,000#. Unable to move liner. Came back out of hole with spear.
	2-8:	Picked up 23 jts. 2 3/8" tubing and ran notched collar on 23 jts. 2 3/8" tubing and 2 7/8" drill pipe. Tagged bridge at 6738'. Attempted to reverse circulate. Hung up. Worked tubing loose. Coming out of hole. Laying down drill pipe.
Jicarilla 30 #2	2-10:	Finished laying down 2 7/8" drill pipe and ten 3 1/2" drill collars. Changed rams and BOP. Rigged up to run 1.90" drill pipe. Made 2 runs with 3" magnet on wireline. Rec. small amt. of fine metal cuttings each run. Ran 3" Clusterite mill on 205 jts. 1.90" drill pipe. Tagged fill at 6734'. Circ. with full returns at 6725'. Reverse circulated at 6734' and plugged mill. Pulled out of 4" liner. Well shut down waiting on daylight to pull wet string. Going back in with 2 7/8" tib to try to reverse out again.
Jicarilla 30 #2	2-10:	Pulled wet string of 1.9" drill pipe and mill. (Had 5' shale on top of mill.) Ran 2 7/8" rerun Varel bit. Loaded hole thru drill pipe (60 bbls.). Rec. circ. 6734' to 6737'. Bit plugged. Pulled 21 stands (1325'). Shut down - waiting on daylight.
Jicarilla 30 #2	2-12:	Pulled 1.90" drill pipe and 2 7/8" bit. Laid down 1.90" drill pipe. Rig released 8 p.m. 2-11-70. Will move in cable tool unit to clean out hole when it is available.

Jicarilla 30 #2	2-19:	Moved on and rigged up James Maness 48-1 Bucyrus Erie cable tool unit. Tagged fill at 6737' KB.
	2-20:	Ran Miller 2 7/8" sand pump with flat bottom. Rec. approx. 2' of metal cuttings, 18' of sand, shale and metal cuttings, for a total of 20'. Hole is clean to 6757' KB.
Jicarilla 30 #2	2-20:	Continued sand pumping. Rec. 18' sand and shale. Cleaned out to 6775' KB.
	2-21:	Sand pumped. Rec. approx. 8' sand and shale and 2 1/2' metal cuttings. Cleaned out to 6785 1/2' KB.
	2-22:	Sand pumped. Rec. 1 1/2' metal cuttings. Cleaned out to 6787' KB.
Jicarilla 30 #2	2-23:	Sand pumping. Rec. 1 1/2' metal cuttings and 4 1/2' silt and shale. Cleaned out to 6793'. Tools hanging on liner top. Ran 5 1/2" tools and 5 1/2" casing swage. Swaged top of liner to 4 1/3".
Jicarilla 30 #2	2-24:	Sand pumped. Rec. 3' silt, shale and metal. Cleaned out to 6796' KB.
	2-25:	Ran Schlumberger 1 11/16" thru tubing 3-arm caliper. Logged 6796-6400' KB. Released cable tool rig 12 noon 2-25-70. Will continue with report as soon as frac materials arrive.
Jicarilla 30 #2 (AFE 12-61-1411)	3-12:	At 8:30 a.m. Western Co. attempted to drop 2 1/2" O.D. x 2' length of explosives wrapped in plastic bags and frozen with dry ice. Bridged off at 3500' KB. Ran Visco 4 1/4" O.D. sand pump and cleaned explosives out of 5 1/2" casing to top of liner. Ran 3 3/8" O.D. cable tool bit to T.D. Loaded and ran nine 3 1/8" O.D. x 10' length torpedo cans. Hole loaded with explosives from 6796' to 6706'. Lost 2 shooter hooks in hole while running torpedo cans.
Jicarilla 30 #2 (AFE 12-61-1411)	3-13:	Loaded hole. Ran ten 3 1/8" O.D. x 10' and two 3 1/8" O.D. x 5' torpedo cans. Total 1270# slurry explosives and 10 qt. (28.5#) nitro. 23-hr. time bomb set to fire at 11 a.m. 3-14-70. Tagged top of shot at 6605' KB. Dumped 50 gal. 3/8" diameter pea gravel. Tagged top of pea gravel at 6514' KB. Ran 3 sax Class "C" cement containing 3% KCl. Spotted at 6514'. Est. cement top at 6484'. PD 11:45 P.M. 3-13-70. Shut down waiting on detonation.
3-14-70	3-14:	Detonation at 10:54 a.m. Ran in with bailer. Tagged cement top at 6475' KB. Began drilling on cement. Shut down for night - live oil.

Jicarilla 30 #2 (AFE 12-61-1411)	3-15:	Drilled on cement. Cleaned out to 6484' KB. Dressed 3 3/8" bit to 4 3/4" to clean cement out of 5 1/2" casing. SDON.
Jicarilla 30 #2 (AFE 12-61-1411)	3-17:	Drilling on cement. Cleaned out to 6496' KB. SDON.
Jicarilla 30 #2 (AFE 12-61-1411)	3-18:	Tagged plug at 6476' KB, 20' up hole. Drove plug to 6497'. Recovering cement and sludge.
Jicarilla 30 #2 (AFE 12-61-1411)	3-19:	Ran 2 7/8" Visco sand pump. Pumped hole clean to top of plug at 6497'. Rec. approx. 30 gal. heavy sludge containing cement and gravel. Ran 3" spear. Tagged plug at 6472', 25' up hole. Drove on spear. Moved down hole to 6507'. Came out with spear bent in "U" shape. Ran 2 7/8" sand pump. No recovery. Redressed bit to 3 3/8" O.D. SDON.
Jicarilla 30 #2 (AFE 12-61-1411)	3-20:	Ran 3 3/8" bit and cleaned out to 6509'. Rec. approx. 20 gal. heavy sludge and 10 gal. pulverized gravel and iron. About 200' of fluid level. SDON.
Jicarilla 30 #2	3-20:	Top of liner appears to be at 6507'. Stuck 2 7/8" sand pump in hole on second run. Tried to work loose. Looked for tools to cut sand line and overshot to fish for pump. SDON.
	3-21:	Rigged up. to cut sand line with drilling line tools. Tools hung up at 5700'. Tried to cut liner at 5700'. No jars. Spudded until sand line parted. Pulled out of hole with both lines. Sand line parted at 6100'. Rigged up grapple to fish for 400' sand line. SDON.
Jicarilla 30 #2	3-22:	Fished for sand line. Line breaking at grapple. Rec. approx. 40'. Rigged up 8' center spear. SDON.
Jicarilla 30 #2	3-24:	Recovered remaining sand line. Ran overshot. Caught fish. Jarring on sand pump.
Jicarilla 30 #2	3-25:	Jarring on sand pump. Overshot pulled off fish. Slips in tools torn up. Ran new slips in overshot. Caught and pulled sand pump. Rigged up tools to string in and swage top of liner.
Jicarilla 30 #2	3-26:	Tagged top of plug at 6502' KB with swage. Drove down to 6522' KB. Deep cuts on swage. Ran casing swab and pulled fluid level to 2800'. Rigged up 3" tools and 3 3/8" bit. Tagged at 6522'. Spudded on plug. Lost approx. 10' hole. Either plug is moving up or fill is coming from above.

Jicarilla 30 #2	3-27:	Drilling and sand pumping. Rec. approx. 40 gal. pulverized gravel, silt and tar-like gunk. Hole cleaned to 6510'.
	3-28:	Drilling and sand pumping. Rec. pieces of broken slips from overshot, 3 pieces of soft metal, approx. 40 gal. pulverized gravel, silt and gunk. Cleaned out to 6536'. Bearing on rig crown block sheave broken at 5:30 p.m. Got out of hole okay. SD to repair rig.
	3-29 & 3-30:	Waiting on repairs.
Jicarilla 30 #2	3-31:	Waiting on repairs. Will drop from report until repairs are made.
Jicarilla 30 #2	4-5:	Replaced bearing crown sheave. Rigged up mast. Started in hole with tools at 5:30 a.m. Tagged plug at 6538'. Recovered pulverized gravel, iron, silt, and gunk. Cleaned out to 6560'.
Jicarilla 30 #2	4-6:	Drilling and sand pumping. Rec. small amt. of pulverized gravel on first runs. Recovery on last run iron fragments and silt. Has strong ammonia odor. Cleaned out to 6576'.
Jicarilla 30 #2	4-7:	Continued drilling and sand pumping. Rec. mud and iron fragments. Cleaned out to 6480'. Gas breaking thru. Sand pump unloading coming out of hole. Ran casing swab to 4000'. Increased gas flow. Ran in liner with spear. Spudded spear into fill. Well started to unload. Pulled out of liner with tools. Gas and oil mist blowing to tank at 1:30 a.m. Waiting on daylight.
Jicarilla 30 #2	4-9:	Rec. 6 BO and flowed an estimated 40 MCF gas with slight oil mist. Ran casing swab. FL 2500'. Swabbed well dry to 4300'. Rec. 44 BO, very slight gas increase. Ran sand pump. Rec. small amt. of shale and torpedo can fragments at 6583'. Ran 3 3/8" bit. Made approx. 1' hole in 3 hrs. Ran sand pump. Rec. small amt. of shale, torpedo can fragments and iron. Ran casing swab to 4300'. Rec. 2 BO. Approx. fluid entry rate 1/2 bbl./hr. @ 4300'. Drilled and sand pumped to daylight. Made no hole. Rec. small amt. of shale, torpedo can fragments, and iron. Rigging up to run casing swab.

Jicarilla 30 #2

4-10: Gas flow decreased to 30 MCF. FL at approx. 4000'. Ran casing swab to 5000'. Rec. 22 BO, no gas increase. Ran 3" center spear. Unable to get deeper than 6583'. Mark on spear indicated liner collapsed. Ran 3 3/8" bit. Made approx. 3' of hole. Bit 1/4" out of gauge after run. Did not get sand pump below 6583'. No recovery. Started picking up 2 3/8" tubing, 4' perf'd sub, and 141 jts. tubing. Running tubing.

Jicarilla 30 #2

4-10: Ran 66 jts. 2 3/8" tubing, total of 207 jts. Landed at 6506' KB. Released cable tool rig at 12 noon 4-10-70.

4-11: Moved off cable tools. Installed two-pen recorder on casing and tubing. CP 420#, TP 300#.

4-12: SICP 600#, SIT? 500#. Well shut in. Drop from report.