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11		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Allottee _____
Lease No. 1-89-IND-56

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Subsequent Report of Deepening Well</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE OR OTHER DATA)

CONFIDENTIAL

April 6, 1962

Well No. 140 is located 1980 ft. from N line and 660 ft. from E line of sec. 11

NE 1/4 Sec. 11
(1/4 Sec. and Sec. No.)

T29N
(Twp.)

R19W
(Range)

NMPM
(Meridian)

Rattlesnake
(Field)

San Juan County
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is 5273 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

T.D. before deepening 6660', open hole completion 6527'-6660'.
Cleaned out to T.D., drilled shale & lime to new T.D. of 6733'.
Ran 10 joints 4 1/2" liner, landed @ 6728'. Top of liner @ 6444',
88' overlap into 7" liner @ 6532'. Cemented w/40 sacks regular.
Ran casing scraper & bit to 6715'. Logged; perforated from 6700'
to 6710' w/4 shots per foot. Ran tubing w/packer set @ 6563'.
Swabbed down to 6300'. Spotted 1,000 gal. acid, pressured up to
3,000 psi, could not displace acid. Cut notches @ 6703' & 6708'.
Reran packer, set @ 6758'. Spotted 1,000 gal. acid, pressured up
OK. Spotted 300 gal. acid, formation broke down from 4500 to
1600 psi. Spotted 700 gal. mud acid. Swabbed well. Pulled tubing
& packer, perforated 4 1/2" casing from 6674' to 6680' w/4 shots (over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Continental Oil Company

Address Box 3312

Durango, Colorado

Original Signed by
By H. D. HALEY

Title District Superintendent



Details of Work -(Continued)

per foot. Reran packer, set @ 6483'. Swabbed tubing dry and spotted 500 gals. mud acid @ packer depth. Pressured tubing to 3000 psi, couldn't pump into formation. Pressured annulus to 1000 psi, tubing to 3500 psi & developed communication between tubing and annulus. Pulled packer, perforated from 6658' to 6666' w/3 shots per foot. Ran tubing w/new packer @ 6483'. Pressure communicated w/annulus. Pulled tubing, found one bad joint, reran w/packer 6547'. Hole open to all perforations. Put 500 gals. acid in hole. Pressured up to 4500 psi, unable to break down. Pulled tubing & packer and perforated at 6677' and 6661' w/3 1/2" bear gun shots. Set packer @ 6547' with 61' of tail pipe below packer and swabbed dry. Spotted 2 bbls. of acid, broke down formation. Acidized w/1000 gals. on vacuum. Swabbed 2 hours, well started flowing. Released rig 3-20-62. IP 3-23-62, 72 BOPD, 20 BOPD & 1100 MCFGPD on 18/64" choke. Allowable: 25 BOPD & 388 MCFGPD.