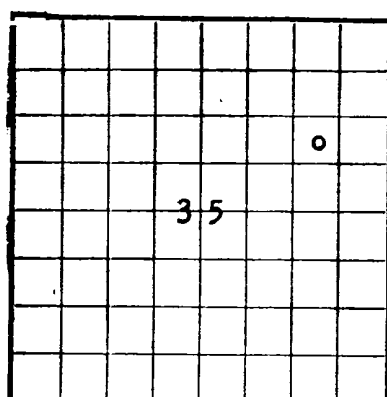


U. S. LAND OFFICE Farmington
SERIAL NUMBER SFO78439
LEASE OR PERMIT TO PROSPECT _____

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Union Texas Petroleum, A Division of Allied Chemical Corporation Address Suite B-400, 1740 Broadway, Denver, Colorado 80202
Lessor or Tract Johnston-Federal Field Blanco Mesaverde State New Mexico
Well No. 9 Sec. 35 T. 31N R. 9W Meridian NMPM County San Juan
Location 1850 ft. MS of N Line and 790 ft. EX of E Line of Section 35 Elevation 5986
(Derive base relative to sea level)The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. ORIGINAL SIGNED BY
Signed CHARLES M. WEARDDate October 3, 1963Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 2, 19 63 Finished drilling September 17, 19 63

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4448 to 4452 G No. 4, from 5102 to 5120 G
No. 2, from 4545 to 4671 G No. 5, from 5124 to 5130 G
No. 3, from 5052 to 5059 G No. 6, from 5138 to 5150 G

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	324	8	800	800	Guide	_____	_____	_____	_____
7	200	8	800	800	Guide	_____	_____	_____	_____
4-1/2	100	8	800	800	Guide	_____	_____	_____	_____
HIT LOSS OF OIL OR GAS LEFT									

MUDDING AND CEMENTING RECORD

Size casing	Where used	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	221	200	Displacement		
7	3033	600 sx Class "C" 6 1/2 gel plus 100 sx Class "C" 2 1/2 CaCl			
4-1/2	5242	145 sx Class "C" 6 1/2 gel plus 50 sx Class "C" neat			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from Surface feet to 5250 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

on test _____ Put ~~in production~~ September 22, 19 63

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 3790 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

C. G. Seybert _____, Driller L. L. Leake _____, Driller
H. E. Clements _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Refer to G-R Density Log			Log Tops: Base Ojo Alamo - 1710 Farmington Sandstone - 1810 Pictured Cliffs - 2790 Cliff House - 4314 Menefee - 4662 Point Lookout - 5022 Mancos - 5158
1800	40	1010 FEET	FORMATION

(OVER)
FORMATION RECORD—Continued

JOHNSTON-FEDERAL #9
Section 35-T31N-R9W SE NE
San Juan County, New Mexico

Well History

1963

- 9/1 Moving in rotary tools.
- 9/2 Rigging up rotary tools.
- 9/3 Spudded 11:45 P.M., 9/2. Now drilling 15" surface hole at 132', MW 9.3, vis 45,
- 9/4 Drilled 15" hole to 232', ran 7 jts. 10-3/4" OD 32.30# STC 8 rd H-40 casing, set at 221', cemented w/200 sx regular cement, 2% HA-5. Pumped plug to 200' PD 12:45 P.M., 9/3. WOC. Nippled up. Prep. to test BOP's.
- 9/5 Drilled out from under surface at 1 P.M., 9/4. Now drilling at 1240', deviation 1/2° at 600 ft.
- 9/6 Drilling at 1900' in sand and shale, drilling w/water. Deviation 1° at 1840'. Well flowing water.
- 9/7 Drilled to 2961'. Deviation 3/4° at 2338'. Well started flowing gas w/water at 2620'. Pulling drill pipe, preparing to mud up.
- 9/8 Mixed pit of mud, ran drill pipe to approx. 2800'. Pumped 10.4# mud to kill well. While working drill pipe, tool joint hung in Shaeffer drilling head. Pulled BOP's and casing head from surface casing. Well flowing gas and water, hole caving.
- 9/9 Mixed and pumped 5 pits of mud. Killed well w/13# mud. Circulating mud back at 12.6# when bit plugged. Pulled drill pipe, well again blew out. Went in hole w/new bit. Hit bridge at 1500', pulled up to 1100', killed well. Circulating 12.8# mud, prep. to set 25 sx cement plug in surface pipe, to nipple up.
- 9/10 Spotted 25 sx Cal-Seal and cement plug in surface casing. Cut off damaged piece of 10-3/4" casing, welded slip collar, nipple and casing head, nipped up. Tested casing and BOP's, 700# - O.K. Drilled cement plug 140' to 200'. Circulated and conditioned mud, vis. 55, MW 12.7. Now drilling out bridges at 1600'.
- 9/11 Cleaned out to 2961', on bottom at 12:30 A.M., 9/11. Now drilling at 3010', MW 12.8, vis. 100, WL 5 cc.
- 9/12 Drilled to 3050', deviation 1°. Conditioned hole, laid down drill pipe. Ran 96 jts. 7" OD 20# J-55 seamless casing set at 3033'; cemented w/600 sx Class C cement, 6% gel, 12-1/2# Gilonite per sack; 100 sx Class C cement, 2% calcium chloride around shoe. Plug down at 5:30 A.M., 9/12. Cement circulated, 50 bbls. excess. WOC.
- 9/13 Nippled up, tested 7" casing and BOP's w/1000# for 30 min. - O.K. Going in hole with 6-1/4" bit, 4-3/4" drill collars, 3-1/2" drill pipe. Displacing water w/gas at 1700'.
- 9/14 Blew load water, drilled cement. Now drilling w/gas at 3800', hole dusting. Deviation 1-1/2° at 3257', 1-1/2° at 3650'.
- 9/15 TD 4690'. Deviation 1° at 3960'. Well stopped dusting at 4450', slight show of gas. Good increase in gas 4660'-4690'. Tested Cliff House zone at TD 4690' - 386 MCFFD. Well flowing oil and oily cuttings by heads.
- 9/16 Drilled to 5161', lost 3 cones in hole. Went in w/new bit, drilled by cones. Now drilling at 5200'. Well started dusting again at 4950', continued to 5160', w/only occasional dusting below 5160'. At depth 5000' tested gas volume - 369 MCFFD. No increase 5030', 5060', 5090', 5120'. Slight increase in gas 5120' to 5150'. Total volume measured 381 MCFFD. Deviation 1° at 4938'.
- 9/17 Gas drilled to 5250', hole not dusting, making an occasional spray of oil. Deviation 1-1/4° at 5250'. Tested flow, no increase in gas. Pulled drill pipe. Ran Lane-Wells G-R and multi-space neutron and density log. Unable to get caliper log down. Lane-Wells TD 5218'. Oil standing in the hole at 5130'. Ran drill pipe, cleaned out, laid down drill pipe. Preparing to run casing.
- 9/18 Ran 164 joints 4-1/2" OD 9.5# J-55 STC 8 rd seamless casing, set at 5242', cemented w/145 sx Class C cement, 6% gel, 12-1/4# Kolite per sack, 1/4# gel flake per sack; and 50 sx neat Class C cement around shoe. Spearheaded cement w/15 bbls. gel water. Pumped plug to 5210', PD at 12:15 P.M., 9/17. Nippled up, ran temperature survey to 5194'. Top cement (field calculations) 2610'. Picked up 166 joints tubing, stood tubing back in the derrick. Now running G-R correlation log, prep. to test casing and perforate.

1963

- 9/19 Tested casing w/3500# - O.K. Perforated with 3/8" jets as follows: 12 holes, 5153-47; 8 holes, 5128-24; 24 holes, 5117-05; 1 hole each at: 5141, 5140, 5138, 5057, 5056, 5055 - correlation log measurements (G-R measurements 1 ft. deeper). Fraced w/100,000# 10/20 sand, 134,820 gals. water, 250# J-100. BDP 3400-1400, maximum treating pressure 3600, minimum treating pressure 3000, average injection rate 55.5 BPM, immediate SIP 500, vacuum in 1 min. Set Baker Model D production packer w/expendable plug at 4669, correlation log measurement. Perforated with 3/8" jets as follows: 32 holes, 4657-41; 10 holes, 4612-07; 1 hole each at: 4632, 4631, 4575, 4555, 4554, 4553, 4547; 2 holes at 4450. Fraced w/80,000# 20/40 sand, 90,000 gals. water, 200# J-100, 80 gals. W-23. BDP 3500, maximum treating pressure 3600, minimum treating pressure 3500, average injection rate 51 BPM, instantaneous SIP 500, vacuum in 2 min. Ran 150 jts. 2-3/8" OD EUE 4.7# 8 rd J-55 seamless tubing w/tail pipe, seal assembly, seating nipple, PSI sliding sleeve, blast nipples, and 3 gas lift valves. Washed out 60 ft. of sand above packer, pushed out expendable plug, landed tubing, nipple up.
- 9/20 Kicked well off through gas lift valves from gas produced from the Johnston-Federal #5. This morning, well flowing through casing; flowing gas, large spray of water, and sand. Flowing casing pressure 150#, tubing pressure 500#, flowing through open 2" line.
- 9/21 Blowing well, still making some water and sand. Released rig 3 P.M., 9/20.
- 9/22 Moving out rotary tools.
- 9/23 24-hr. SITP 722, SICP 722. Opened well on 3/4" choke nipple through casing for 1-1/4 hrs. Results as follows:
- | | T.P. | Pressure at choke |
|---------|------|-------------------|
| 15 min. | 630 | 420 |
| 30 min. | 615 | 390 |
| 45 min. | 605 | 385 |
| 60 min. | 595 | 385 |
| 75 min. | 595 | 385 |
- Volume after 1-1/4 hrs., 3790 MCF/day (assumed gas gravity 1.0). CAOF 8963 MCF/day. SI. To set test unit.
- 9/24 SI, waiting on test unit.
- 9/25 Connecting test unit.
- 9/26 Closed PSI sleeve, SICP 760, SITP 740. Opened well through tubing (Point Look-out) on 28/64" choke. After 19 hrs., stabilized rate of flow 1826 MCFPD based on assumed gravity of .67. CP 740, FTP 540. Produced 4.17 bbls. of light condensate in 19 hrs. SI tubing, opened casing (Cliff House) on 3/4" choke. Testing.
- 9/27 After 7 hrs., Cliff House flowed at rate of 1005 MCFPD. 24-hr. SITP 705, flowing casing pressure 490. Produced 1.25 bbls. condensate in 7 hrs., gravity 57. 16-hr. SICP 740. Well shut in - waiting on pipe line connection.

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NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Denver, Colorado September 30, 1963
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Union Texas Petroleum Corp. Johnston-Federal, Well No. 9, in SE 1/4 NE 1/4,
(Company or Operator) (Lease)

H, Sec. 35, T. 31N, R. 9W, NMPM, Blanco Mesaverte Pool
Unit Letter

San Juan County Date Spudded 9/2/63 Date Drilling Completed 9/17/63

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Elevation 5987 KB Total Depth 5230 PBD 5199

Top Oil/Gas Pay 4448 Name of Prod. Form. Cliff House and Point
PRODUCING INTERVAL - 5153-47, 5128-24, 5117-05, Lookout
5140, 5138, 5057, 5056, 5055, 4567-41, 4612-07,
Perforations 4632, 4631, 4575, 4555, 4553, 4547, 4550, 5141,
Depth Depth
Open Hole Casing Shoe 4442 Tubing 4678

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls water in hrs, min. Size Choke
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of Choke
load oil used): bbls. oil, bbls water in hrs, min. Size

GAS WELL TEST -

Natural Prod. Test: 381 MCF/Day; Hours flowed 24 Choke Size 3/4
Method of Testing (pitot, back pressure, etc.): 3/4" choke nipple
Test After Acid or Fracture Treatment: 3790 MCF/Day; Hours flowed 1-1/4
Choke Size 3/4 Method of Testing: 3/4" choke nipple

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 180,000# sand; 224,880 gal. water

Casing Tubing Date first new
Press. 722 Press. 722 oil run to tanks WCP

Oil Transporter Platoon, Inc.

Gas Transporter El Paso Natural Gas Company

Remarks: Johnston-Federal #5, NE NE Section 35-T31N-9W, temporarily abandoned.

Request cancellation of allowable Johnston-Federal #5.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved OCT 1 1963, 19.

Union Texas Petroleum Corp.
(Company or Operator)

OIL CONSERVATION COMMISSION

By: /s/ Charles M. Heard
(Signature)

By: Original Signed Emery C. Arnold

Title: District Superintendent
Send Communications regarding well to:

Title Supervisor Dist. # 3

Name: Union Texas Petroleum Corp.
Suite B-400, 1740 Broadway
Address Denver, Colorado 80202

