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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Jicarilla 70-9
Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65
B.K.

I. Operator
Chace Oil Company
Address
313 Washington, S.E. Albuquerque, New Mexico 87108
Reason(s) for filing (Check proper box) Other (Please explain)
New Well ☒ Change in Transporter of:
Recompletion ☐ Oil ☐ Dry Gas ☐
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

| | | | | |
|---|---------------|---|---|-----------------|
| Lease Name Jicarilla 70 | Well No. 9 | Pool Name, Including Formation S. Lindreth Gallup-Dakota | Kind of Lease State, Federal or Fee Indian | Lease No. 70 |
| Location Unit Letter "A" : 660' Feet From The NL Line and 660' Feet From The EL Line of Section 34 Township 24N Range 4W, NMPM, Rio Arriba County | | | | |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

| | | | | | | |
|---|--|------------|-------------|------------|----------------------------------|------|
| Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> The Permian Corporation Permian (Eff. 9/1/81) | Address (Give address to which approved copy of this form is to be sent) P. O. Box 1702, Farmington, NM | | | | | |
| Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> El Paso Natural Gas Co | Address (Give address to which approved copy of this form is to be sent) P. O. Box 1492, El Paso, Texas | | | | | |
| If well produces oil or liquids, give location of tanks. | Unit "A" | Sec. 34 | Twp. 24N | Rge. 4W | Is gas actually connected? No | When |

If this production is commingled with that from any other lease or pool, give commingling order number: No

IV. COMPLETION DATA

| | | | | | | | | |
|---|--|--|--|---------------------------|---------------------------|-------------------------------------|-------------|--------------|
| Designate Type of Completion - (X) | Oil Well <input checked="" type="checkbox"/> | Gas Well | New Well <input checked="" type="checkbox"/> | Workover | Deepen | Plug Back | Same Res'v. | Diff. Res'v. |
| Date Spudded 4/15/81 | Date Compl. Ready to Prod. 8/3/81 | | Total Depth 7500' | | P.B.T.D. 7454 | | | |
| Elevations (DF, RKB, RT, GR, etc.) 7021 KB, 7020 DF | Name of Producing Formation Gallup-Dakota | | Top Oil/Gas Pay 6100-6286 7290-7310, 7020-7140 | | Tubing Depth 7250 | | | |
| Perforations 7292-12', 7020-23', 7047-53, 7063-67', 7070-72', 7108-12', 7130-38', and 6100-02, 6120-28', 6166-70', 6154-56', 6167-70', 6251-53', 6264-66' | | | | | Depth Casing Shoe 7454 | | | |
| HOLE SIZE 9 5/8" 7 7/8" | | CASING & TUBING SIZE 8 5/8" 4 1/2" | | DEPTH SET 220' 7497 | | SACKS CEMENT 150 SXS 1850 SXS | | |

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

| | | | |
|--|------------------------|--|------------------|
| Date First New Oil Run To Tanks 6/30/81 | Date of Test 8/3/81 | Producing Method (Flow, pump, gas lift, etc.) pumping | |
| Length of Test 24 | Tubing Pressure 50 | Casing Pressure 50 | Choke Size 2" |
| Actual Prod. During Test | Oil - Bbls. 110 | Water - Bbls. 90 | Gas - MCF 200 |

GAS WELL

| | | | |
|----------------------------------|---------------------------|---------------------------|-----------------------|
| Actual Prod. Test - MCF/D | Length of Test | Bbls. Condensate/MMCF | Gravity of Condensate |
| Testing Method (pitot, back pr.) | Tubing Pressure (Shut-in) | Casing Pressure (Shut-in) | Choke Size |

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Reggie McCaskey
(Signature)
President
(Title)
8/7/81
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____
BY Original Signed by FRANK T. CHAVEZ
TITLE SUPERVISOR DISTRICT # 3

AUG 11 1981
This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiply completed wells.

CHACE DEVELOPMENT CO., INC.

313 Washington S.E.
Albuquerque, New Mexico 87108
(505) 266-5562



*Chace Dev Co.
Jicarilla 70-9
Page 1*

NAME OF WELL: JICARILLA 70-9

LOCATION: Unit "A", 660' NL & 660' EL, Section 34, T24N,
R4N, Rio Arriba County, New Mexico.

ELEVATION: 7009' GR

LEASE: JICARILLA 70

EXPECTED FORMATION TOPS:

| | | |
|-----------------|-------|------------|
| Pictured Cliffs | 2795' | |
| Chacra | 3255' | |
| Cliff House | 4480' | |
| Point Lookout | 5150' | |
| Gallup | 6110' | Base 6350' |
| Greenhorn | 7040' | |
| Gareros | 7120' | |
| Dalota "A" | 7140' | |
| Dalota "B" | 7245' | |
| Dalota "C" | 7275' | |
| Dalota "D" | 7313' | |
| Burro Canyon | 7380' | |
| TD | 7500' | |

4/10/81 Let drilling Contract to Young Brothers Drilling Co.

4/15/81 M Construction completed location road.

4/16/81 Spudded well at 5:30 p.m., Set 5 joints (208.89 ft.) of 8 5/8" casing. Casing set 220.89. K.B. cemented with 150 sacks of Class B 2 $\frac{1}{2}$ calcium Chloride. Circulated 7 bbls of cement. Plugged down at 11:54 p.m.

4/17/81 Present time WOC. 7:00 a.m., drilling at 1695' made trip to change bit. Vis 40, MW 9, WL 6cc, Oil 15%.

4/18/81 7:00 a.m., drilling at 2990', made trip to change bit. (bit #3), Vis. 41, MW 9.2, WL 5cc, Oil 12%.

4/19/81 Depth 3720', ss $\frac{1}{2}$ 34, MW 9.2, Vis. 37, WL 6.2, Oil 8%

4/20/81 Depth 4375'-4219 $\frac{1}{2}$ ', MW 9.2, Vis. 36, WL 6.8, Oil 5%

4/21/81 Formation, sand and shale, Activity at report time - trip in hole, Slope test 1" at 4776', MW 9.1, Vis. 35, WL 7, Oil 6%, Rotating hours 16 $\frac{1}{2}$, Trip 3 $\frac{1}{2}$ hrs., Rig service $\frac{1}{2}$, Rig repair 3 $\frac{1}{2}$.

4/22/81 Depth 5280', drilling, sand and shale, Activity at report time - drilling, MW 9, Vis. 37, WL 7, Oil 8%, Rotating hours 20 $\frac{1}{2}$, trip time 3 hours, Rig service 3/4 hrs.

4/23/81 Depth 5785', deviation survey 1" at 5772', MW 9, Vis. 37, WL 6 $\frac{1}{2}$, Oil 7%.

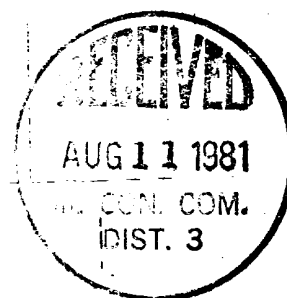
4/24/81 Depth 6510', Activity at report time - trip in hole with bit. (bit #7), deviation survey 1 $\frac{1}{2}$ " at 6150', MW 9, Vis. 36, WL 5.8, Oil 10%, LCM 3 $\frac{1}{2}$, rotating hours 17 $\frac{1}{2}$, service rig 3/4 hrs.

4/25/81 Depth 6510', MW 9.1, Vis. 36, Oil 10%, Drilling 20 $\frac{1}{2}$ hours, trip in hole 1 hour, service rig - 1 hour, wash to bottom 1 $\frac{1}{2}$ hours, WL 5.8.

4/26/81 Depth 7020', Vis. 38, MW 9.1, WL 6 $\frac{1}{2}$, Oil 10%, drilling 23 $\frac{1}{2}$ hours, Rig service 3/4 hours.

4/27/81 Depth 7150', MW 9.1, WL 6 $\frac{1}{2}$, Vis. 37, Oil 10%, Rotating hours 7 3/4, trip in hole to repair 15 $\frac{1}{2}$, wash to bottom 1/4 hours.

4/28/81 Depth 7405', WL 5.0, MW 9.1, Activity at report time - drilling, Vis. 42, Oil 10%, rotating hours 23 $\frac{1}{2}$, rig service 3/4 hours. Burro Canyon.



... went back in hole, coming out laying down drilling pipe.
Directional Survey 3/4" at 7500'.

Chase Oil Co. Inc.
Jensen 70-9
Page 2

4/30/81 Ran 170 jts of 4 1/2" - 10.5# (7496.73') casing. shoe at 7496', Float collar at 7454', cement baskets at 7034' 6320', 6005'. D.V. Tool at 2967', short jt at 6005' to 6025'. Flushed hole with 1000 gals of mud acid followed by 1150 sxs of 50-50 pos-mix w/6# salt, 6# gilsonite and 2# gel per sack. Plug down at 4:50 p.m., Opened D.V. Tool, flushed with 1000 gals mud acid followed by 3000 sacks 65-35 pos-mix (st 12# gel, 6# gilsonite per sack), and 100 sacks of class B Neet. Plug down at 8:40 p.m.. Released rig. WOCT. Cement circulated to tops of cement behind casing at 4,500' first stage, and 1,000', second stage.

5/27/81 Big A Rig moved in about 10:30 a.m., Rigged up set BCP on well head - RIH with 2 3/8" Tbg. to 3070', to tag cement on top of D.V. tool - had about 10' of cement on top of plug. Hooked up swivel and pump - drilled cement and D.V. tool @6:25 p.m., Ran bit thru 5 times to clean up. 7:15 p.m. Going in hole to 7429' with Tbg. to clean out well. 7:30 p.m. NASCO arrived to start mixing tanks. Reached btm at 7429' with tbg. @10:30 p.m. preparing to circulate and spot clay stabilizer and acid. Finished at 2:30 a.m. - started out of hole. OOH at 4:50 a.m. - Blue Jet on location. Ran correlation log. 6:00 a.m., per forating from 7359'-63', Going in hole with packer to be set at 7100', 9:30 a.m. broke down perf. w/clay stabilizer, acid and nitrogen - Breakdown pressure 3900# - inj. rate 3.5 min. ISIP 2900# after 10 min., 2500#.

5/28/81 Opened well up. Flowed nitrogen and acid water for 10 min. died, began flowing by heads for 8 min. died, Going in with swab - swabbed back 28 bbls - well flowing water. Spotted acid and clay stabilizer over "D" sand, came out. Ran Bridge plug to 7350'. Going in to perforate 7292' to 7312' (CPM 5/28/81) Broke down perf - 1800# BDP - pumped in @15 BPM rate, dropped 36 balls - complete ball off - 4500# 8:00 p.m. - Release pressure, went in with ball catcher and retrieved 32 balls 9:51 p.m. (Thurs.) Frac'd well with 73,000# 20-40 sand 1142 bbls water w/30# gel 1# Kel, 4# crosslinker, (8 hour breakdown) and 2 gal 1000 NNE-247 friction reducer May rate, 36 BPM @3300# psig inst. SIP - 2100#
5 min - 1700#
10 min - 1600#
15 min - 1500#
Went in hole - set bridge plug (wireline) at 7250' tested csg 3100 psig, WIH perforated 7020'-23', 7047'-53', 7063'-67'. 7070'-72'. 7108'-12', 7130'-38'. Killed well. broke down perfs with acid and clay stabilizers. Breakdown 2400# inj. rate 8 Bbls/min at 2000#.

5/29/81 Ball off pressure 3500# - flowed balls off formation SI for 30 min. to allow balls to settle. Frac'd zone with 11,000# 20-40 sand and 1286 bbls water, using 30# gel, 1# Kel, .4# 326 crosslinker and 2 gals/1000 NNE-247N surfactant.



5/29/81

| | |
|--------------|-----------|
| Max pressure | 3600 psig |
| Max rate | 41.8 BPM |
| ISIP | 1800 Psig |
| 6 min. | 1600 Psig |
| 15 min. | 1500 Psig |

Chase Oil Co., Inc.
Jewell 70-9
Page 3

Set wireline Halliburton Bridge plug #6407', Tested csg to 4000 psig. W/HWPG and perforated from 6166'-70, 6100'-02, 6120'-28, 6154'-56, 6167'-70, 6251'-53, 6264'-66, and 6278'-86. Pumped in clay stabilizer and 7½ Keil at a rate of 8 BPM @2300 Psig, dropped 40 balls Ball of Press. 3700 psig, flowed balls off. Frac'd with 1619 Bbls. 20# gel water and 81,000# 20/40 sand, 1½ Keil and friction reducer.

| | |
|----------------|--------------------|
| Max rate | 56 BPM |
| Max Press | 3200 psig |
| ISIP | 600 psig |
| After 15 min. | 300 psig |
| Went on vacuum | 1 hour, 30 minutes |

Shut well in 8 hours to allow gel to break down. Going in hole to drill out plugs.

5/30/81 Well on vacuum, pumped in 267 Bbls water to gain circulation. Oil and gas from Gallup to surface. Drilled out plugs at 6407' and 7250'. Cleaned out well, pulled up 80 stands and shut in for Sunday.

5/31/81 SI

6/01/81 Coming out of hole with tbq. to remove bit and go back in hole for completion. CSG. 550 Psig, flowed approximately 5 bbl oil, Circulating oil & gas out of hole. Finish pulling tbq. Ran seating nipple and 236 jts., 2 3/8 tbq. landed #7314.66. Pull of B.O.P., Flange up well head. Swab well to pit. Oil and gas cut water.

6/03/81 Swabbed part of night tank, has 7 feet. Csg pressure 145#, quit swabbing about 4:30 a.m., started rigging down to move to 70-10. 6:30 a.m.

6/04/81 Moved completion rig to 70-10, Well shut in - started location Hook-up, set tank (400 bbls.) and separator.

6/05/81 Moved NASCO in and blew well around 1500# on casing. Would not flow. Still working on location facilities.

6/06/81 Moved swabbing rig back in hole - well making oil water and sand - SI completing location hook-up.

6/07/81 Went in hole with endless tubing and washed out sand left 1500# on tbq. and csg., Will let equalize and open well later. Tbg. landing about 7250' - Well hook-up complete but still flowing liquids into stock tank to keep any possible sand out of separator.

6/08/81 Shut in

6/09/81 Brought in nitrogen truck - pumped well for 6 hours. Made 160 Bbls of oil and no barrels of water - gas has not broken through.

6/10/81 Shut in to equalize.

