

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. Citation Oil & Gas Corp. 8223 Willow Place South Ste 250 Houston, Texas 77070		OGRID Number 004537
Property Code 002821	Property Name Devonian State Com	Well No. 3

Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
6 J	20	21S	36E		1980	South	1980	East	Lea

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
6 J	20	21S	36E		1980	South	1980	East	Lea

Proposed Pool 1 Eumont Yates Seven Rivers Queen	Proposed Pool 2
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Work Type Code E	Well Type Code G	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 3612 est.
Multiple No	Proposed Depth 3900	Formation Queen Yates Seven Rivers	Contractor N/A	Spud Date upon Approval

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
16"	12 1/2"	50#	135	unknown	unknown
11"	8 5/8"	unknown	1487	800	Surface
7 7/8"	5 1/2"	unknown	3843	800	1487'

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Citation plans to re-enter the Arco St. D #1 well and recomplet P&A well to a producer in the Eumont Yates Seven Rivers Queen Pool. This will be an OH completion from 3843' - ± 3930'. Please see attached workover procedure and BOP schematic. C-102 attached.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <u>Sharon Ward</u>		OIL CONSERVATION DIVISION	
Printed name: Sharon Ward		Approved by: <u>Orig. Signed by</u> <u>Paul Kautz</u>	Title: <u>Geologist</u>
Title: <u>Regulatory Supv.</u>		Approval Date: <u>JUL 22 1995</u>	Expiration Date:
Date: <u>7-16-96</u>	Phone: <u>713-469-9664</u>	Conditions of Approval: Attached ☐	

GEOLOGICAL PROGNOSIS

Field: Eumont

Operator: Citation Oil & Gas Corp.

Well Name: Devonian State Com. 3 **Geologist:** Jerry Greer
Office (713) 469-9664
Home (713) 353-3764

Location: Sec. 20, T21S - R36E
Lea County, New Mexico Dave Grogan
1980' FSL - 1980' FEL of Sec. Office (713) 469-9664
(Prev. Arco State "D" #1 wellbore) Home (713) 443-1762

Classification: Development Gas (Re-entry)

Total Depth: *3750' **Est. Elevation:** KB: 3630'
(* to be discussed further with operations) GL: 3620'

Main Objective: Yates, Seven Rivers, Queen

Estimated Geological Tops:

<u>Formation</u>	Type Well	This Well
	Conoco	Estimated
	State C-20 #7	
	<u>MD/SS</u>	<u>MD/SS</u>
Base Salt	2875' (+765')	2855' (+775')
Yates	2997' (+643')	2985' (+645')
Seven Rivers	3240' (+400')	3255' (+375')
Queen	3592' (+38')	3590' (+40')
Penrose	3730' (-90')	3730' (-100')
Grayburg	3900' (-260')	3900' (-270')

Mud Logging Depth: None

Special Casing and/or Requirements: None

Testing: None

Logging Program: Gamma Ray Neutron Log 1450' - TD

Potential Production Zones:

Primary: Yates
Seven Rivers
Queen
Penrose

Secondary: None

Velocity Survey/Integrated Sonic: None

Coring: None

APPROVED: D. Kroger

DATE: 1/31/96

WORKOVER PROCEDURE

PROJECT: Devonian State Com No. 3 (Former ARCO St. D #1) - Re-enter & Recompl PA'd well

DRILLED & COMPLETED: 1935 LAST WO: 10/69 - PA'd w/BP + 10 sx cmt Surf Plug

LOCATION: NW/4 SE/4 SEC. 21, T-21S, R-36E

FIELD: Eumont COUNTY: Lea STATE: NM

TD: 3930' PBDT: 3810' DATUM: 3624' DF KB to GL: ?

CASING AND LINER RECORD

SIZE	WEIGHT	DEPTH	CEMENT	HOLE SIZE	TOC	REMARKS
12 1/2"	50.0#	135'	?	16"	?	
8 5/8"	?	1487'	800	11"	SURF	calc'd w/50%
5 1/2"	?	3843'	800	7 7/8"	1487'	calc'd w/100%
				?	OH	OH f/3843'-3930'

PRESENT FORMATION AND COMPLETION: PENROSE OH F/3843'-3930'

TUBING: NONE

TBG HEAD: NONE - WELL PA'D W/MARKER

MISC.: BP SET @ 3,810' IN 1969' (Type unknown)

PROCEDURE

Notify NMOCD of Intent

Dig out cellar & expose casings

Set new locations anchors

Weld on new 8 5/8" x 11" 2M# S.O. WHD w/11" x 7 1/16" 2M# Csg Hd

1. MIRU PU. NUBOP on new WHD.
2. GIH w/4 3/4" MT bit, 3 1/8" DC's, & SN on 2 7/8" WS. DO cmt plug f/0'-85'.
3. FIH w/bit & CHC @ 3,810'. Break circ. every 500 - 1000'. SI BOP & test csg to 500 psi. Swab well down to SN. POH w/bit.
4. RU WL w/ lubricator & GIH w/dump bailer & dump 20' of cmt on BP @ 3,810'.
5. GIH & run GR-CNL-CCL correlating to logs provided by reservoir department. SION for reservoir perforation selection. Perforate Seven Rivers-Queens as instructed by Reservoir Department using 120° Phasing w/1 JSPF w/3 1/8" csg gun. RD WL.
6. GIH w/5 1/2" RTTS on 2 7/8" WS. Hydrotest in hole @ 7000 psi AS. Set pkr @ 3,800' & test BP to 3,000 psi using 2% KCL. PUH & reset Pkr @ +/- 3,250' (200' above top perf). Load annulus w/2% KCL & tst to 500 psi.

2 of 2 - Dev. St. No. 3 Com - Re-enter & Recompl PA'd (ARCO ST. D#1) as Y-SR well

7. Acidize SR-QN w/2,000 gal 15% HCL & flush to perms w/2% KCL.
8. RU & swab back load.
9. Frac SR-Qns using 50Q CO2 as per attached recommendation.
10. Flow back well to recover load.
11. Rlse pkr & POH.
12. GIH w/RBP & Pkr. Set RBP @ +/- 3,250'. PUH to 3,240' & set pkr. PT RBP to 3,000 psi. Rlse pkr. Spot 2 sxs sand on RBP. POH w/pkr.
13. RU WL w/lubricator. GIH & perforate Yates 1 JSFF w/120° PH as per reservoir department's instructions. Correlate to Houston's logs. POH & RD WL.
14. GIH w/5 1/2" RTTS pkr, 2 7/8" SN on 2 7/8" N-80 WS. Hydotest in hole @ 7,000 psi AS. Set pkr @ +/- 2,950'. Load annulus w/2% KCL & PT to 500 psi.
15. Acidize Yates w/2,000 gal 15% HCL & flush to perms w/2% KCL.
16. RU & Swab back load.
17. Frac Yates as per attached recommendation using 50Q CO2. (All sand tagged w/IR-192 @ 0.5mc/lm#). Maintain 500 psi on annulus thru fracture treatment.
18. Swab & flow well back to recover load.
19. Rlse pkr & POH.
20. GIH w/RBP OS on WS. RU foam unit w/swivel. Circ sand off RBP. Latch onto RBP & POH.
21. GIH w/4 3/4" MT Bit & CO fill to PBTD using foam unit. POH & LD WS.
22. GIH w/2 3/8" prod tbg, 2 3/8" SN, 4' 2 3/8" sub, cavins desander & 2 Jt BPMA. SN set @ +/- 3,700'. ND BOP & Stripper. NU WHD.
23. GIH w/1 1/4" pmp on API 7-6 rod design. Space out & hang on. Turn to test.

CDL 7/16/96

General Purpose Worksheet

SUBJECT: ARCO - STATE "D" #1

PAGE NO.:

OF:

FILE:

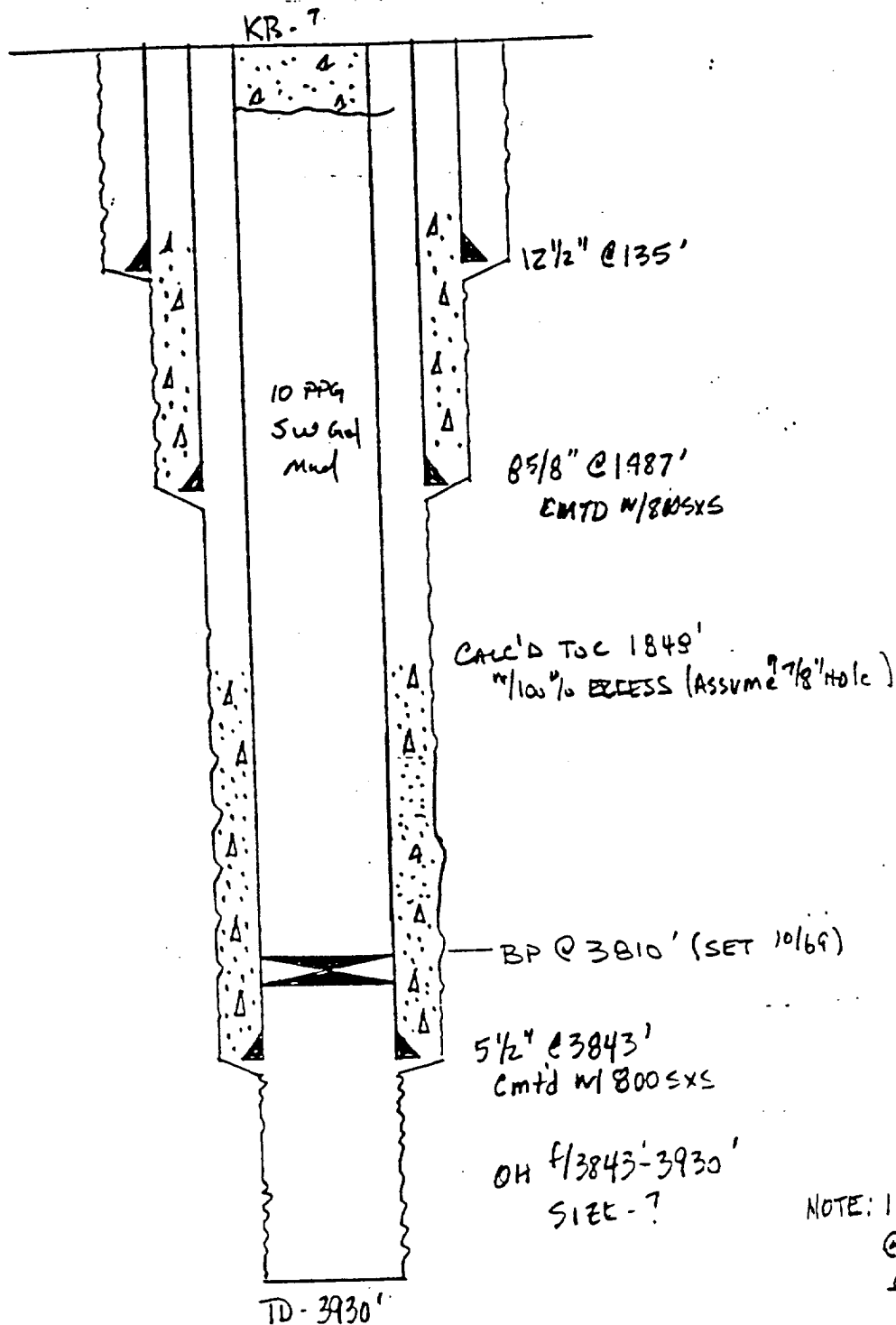
BY:

DATE:

NW/4 SE/4 SEC 21, T-21S, R-36E, LEA CO., NM
DRILLED - 1935

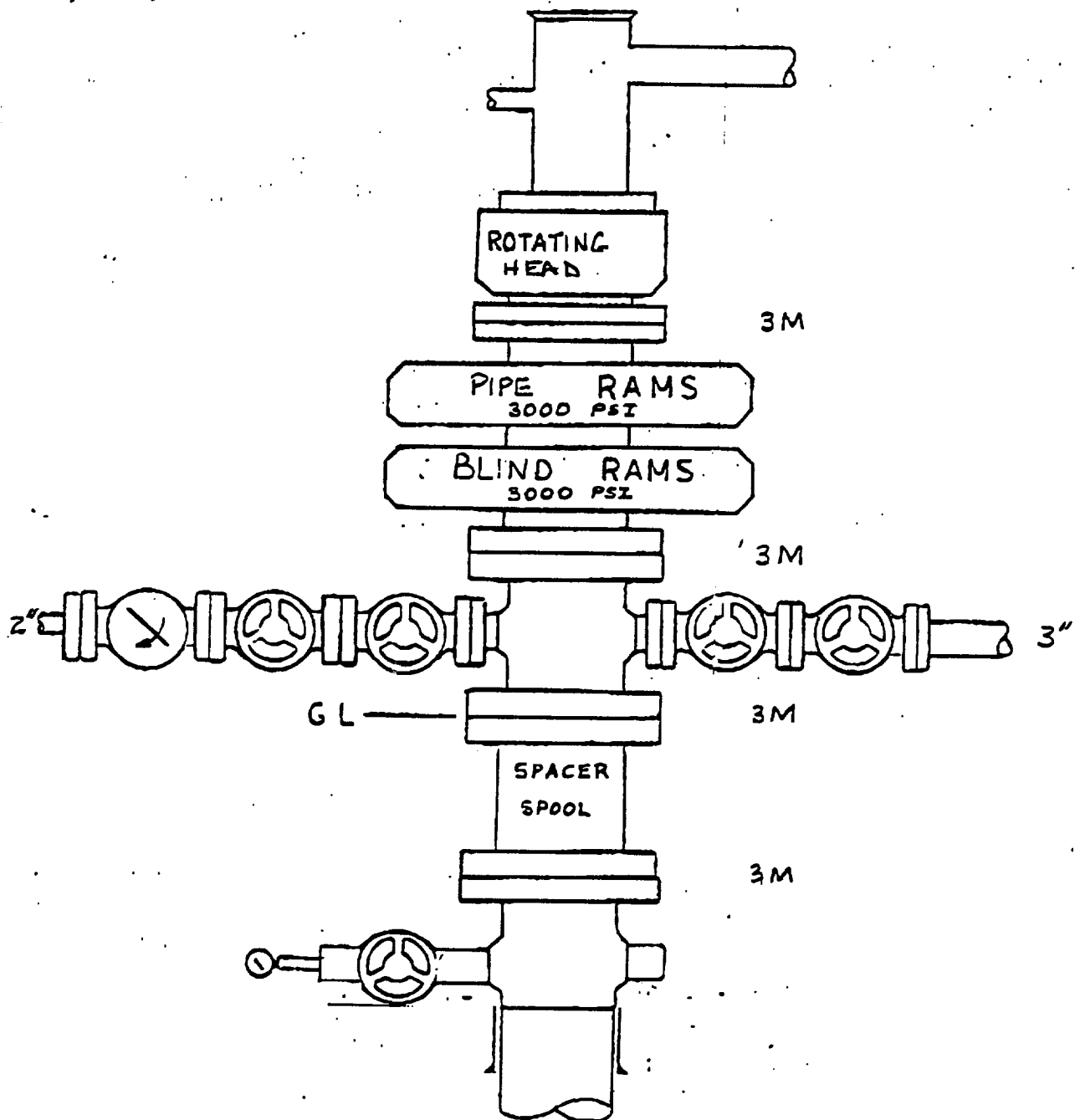
ELEV - 3624' DF

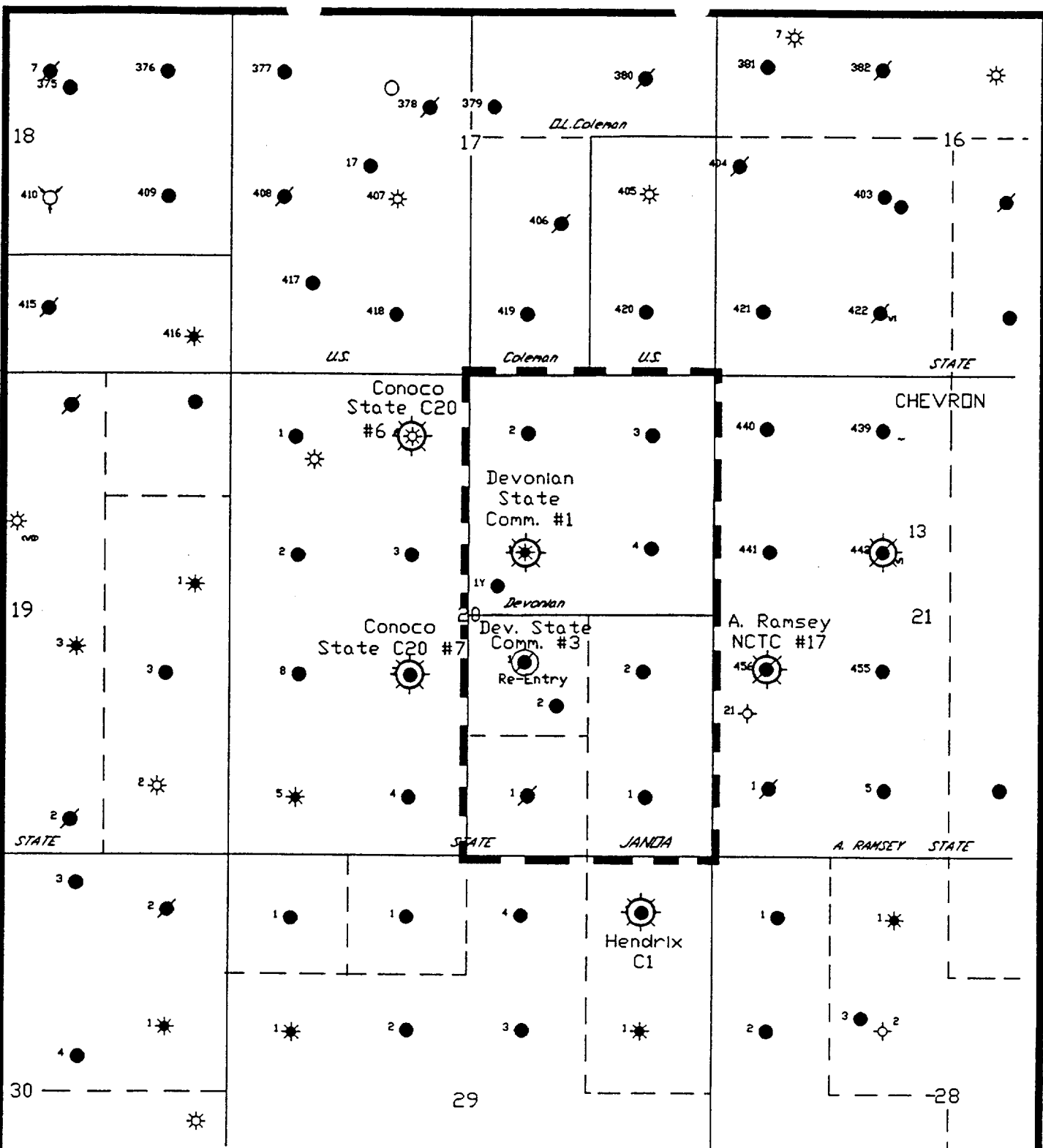
PRESENT STATUS - INCOMPLETE AS SEVEN RIVERS-QUEEN-YATES GAS WELL



NOTE: 10/69 - WELL PAID W/ 13P SET
@ 3810' & 10SX CNT Plug SET
4/0-95'. Hole Loaded w/ 10#
SALT GEL MUD

DEVONIAN STATE A #3
PLANNED
BOP STACK





T 21 S - R 36 E



DEV. ST. COMMUNITIZED AREA



PROPOSED RE-ENTRY
DEVONIAN STATE COMM. No.3

Citation
OIL & GAS CORP.

EUMONT FIELD
Lea County, New Mexico
PROPOSED DEVELOPMENT

