

LINAM RE-ENTRY PROSPECT
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER STOGNER	
OIL CONSERVATION DIVISION	
<i>Applicants</i>	EXHIBIT NO. <u>1</u>
CASE NO.	<u>8165</u>

LINAM RE-ENTRY PROSPECT
LEA COUNTY, NEW MEXICO

LEASEHOLD

Echo Production, Inc. of Graham, Texas is proposing to re-enter a 9,490 foot Upper Pennsylvanian failure in South Robert Ranch (S.R.R.) Field and deepen to 10,500 feet for a completion attempt in the Atoka Formation. It is located in the N 1/2 of Section 23, T-9-S, R-32-E, in Lea County, New Mexico (Fig.1). The total amount of acreage associated with this re-entry prospect is 320 gross acres with the geological target being the Atoka Sand.

LOCATION

The Linam Re-entry Prospect is approximately 20 miles west of Crossroad, New Mexico, located in Section 23, T-9-S, R-32-E, Lea County, New Mexico. The proposed re-entry well is located

standard

660' FNL & 1980' FWL of Section 23 This well was originally drilled by Amerada Petroleum Corporation (#1 Chartier) in 1955.

A total depth of 9,490 feet was reached (Upper Pennsylvanian Formation) with no shows of oil or gas, it was plugged in December of 1955 (Exhibit A). Echo Production, Inc. is proposing to re-enter this well and deepen it to 10,500 feet for completion attempt in Atoka Sand Sections. If Echo is unsuccessful in re-entering this well, Echo proposes to drill a new well, located 660' FNL

non standard

& 660' FWL of section 23, this well will offset Amerada #2 Chartier.

The Amerada #2 Chartier was produced from the Upper Pennsylvanian Formation, but it was tested at the Atoka Sand Sections and had excellent gas shows (Fig.2).

ATOKA STRATIGRAPHY

Shallow marine limestone deposition was predominant in late

Morrowan and early Atoka time. Renewed uplift during Atoka time caused an influx of clastics which were deposited in a shallow marine environment. The Atoka Sandstones were deposited along northeast trend parallel to the ancient Atokan Shorelines. The sand trends migrated with the shoreline into the basin during Atoka time. The sediments probably originated from the positive areas to the north or northwest. Figure 3 shows the regional environmental interpretation for the Atoka.

STRUCTURE

The Linam Prospect is located on the southeast flank of the South Robert Ranch (S.R.R.) anticlinal structural in section 23, T-9-S, R-32-E, Lea County, New Mexico. The prospective objective is Atoka clastic section.

The initial production in the S.R.R. Field came from the "Devonian" dolomite. The field has been depleted in this reservoir. It is a light gray dolomite with good intercrystalline and vuggy porosity, very efficient water drive. These reservoirs are already water flooded upon depletion and contain very little, if any, moveable oil.

Atoka sands have produced in three (3) wells southeast of the S.R.R. Field. The Phillips #1-A, 1-B, and 1-C. Marg Unit on the sections 24, 25, and 36, T-9-S, R-32-E. There is also an Atoka shut-in gas well in the southwest of S.R.R. Field of section 21, T-9-S, R-32-E.

Structural mapping of several different horizons indicate that the S.R.R. structure was present and of significant relief during

Atoka and Devonian times. Atoka clastic deposition in the prospective area are thought to be a series of prograding beaches with a northeast trend and the source of the clastics is to the north.

GEOLOGY

There is no established Atoka Sand production in the S.R.R. Field, but excellent Atoka tests have been encountered in many of the wells (Fig.2). The proposal is to re-enter the Amerada #1 Chartier well, which is a 9,490 foot Pennsylvanian dry hole, and deepen to 10,500 feet for completion attempt in Atoka Sand Sections. This well was originally drilled in October of 1955 and plugged in December of 1955. Plugging data obtained from New Mexico Oil and Gas Conservation Commissions indicated there is a very good chance to re-enter this well (Exhibit A). The nearest significant Atoka show, is from the Amerada Petroleum Corporation #2 Chartier which is about 1,320 feet west of the proposed location. The Amerada #2 Chartier was originally completed from perforations at 9,202 - 9,214 feet (Upper Pennsylvanian). This well had an excellent Atoka Sections test (DST: 10,170'-369', OP 4'29", Gas 6" @8,600 MCFGPD & dist. in 13"), but no completion attempts was done in this Atoka Sections. This well was plugged in June of 1957. It is unlikely to re-enter this well because they left part of the 2 3/8" tubing in the hole.

The re-entry and completion attempt of the #1 Chartier well will be approached as follows:

ECHO PRODUCTION
LINAM PROSPECT
RE ENTRY PROCEDURE
AMERADA PET. CO. F.E. CHARTER
WELL NO. 1
SEC. 23, T9s, R32e

1. Move in pulling machine with power swivel and 7 $\frac{1}{2}$ X 14' mud pump.
2. Drill out cement plug in surface and wash down to 1155' top of shot off 8 5/8" casing.
3. Run impression block to determine what part of 8 5/8" pipe looking up. If pipe body is looking up run casing bole and couple 8 5/8" casing together. If collar looking up run die nipple and screw back into casing. (If for any reason can't get back on to 8 5/8" casing, shut down and consider drilling new hole.)
4. Move drilling rig in and wash old hole down to T.D. of 9490'. Drill new hole to 10,500' or into the Top of Mississippian Formation.

ECHO PRODUCTION, INC.

A F E

Prospect: Linam (Re-entry)
County: Lea
State: New Mexico
Net Acres: 320

Estimated Drilling Costs - Intangible

Location & Pits	\$ 5,000	
Water & Damages	15,000	
Drilling Mud, Chemicals	20,000	
Drill Stem Tests - 1 @ \$5,000	5,000	
Day Work - 360 hrs. @ \$200	72,000	
Logs	15,000	
Moving	20,000	
Fuel	20,000	
Miscellaneous Bits	10,000	
Plugging, if dry hole	<u>5,000</u>	
Total		<u>\$ 167,000</u>

Estimated Drilling Costs - Tangible

1170' surface csg.		
8-5/8' @ \$10.00	\$ 11,700	
Total		<u>\$ 11,700</u>

Cost to Casing Point

Drilling - Intangible	<u>\$ 167,000</u>	
Drilling - Tangible	<u>\$ 11,700</u>	
Total		<u>\$ 178,700</u>

AFE
Linam Propsect

Estimated Completion Cost - Tangible

Casing 10,500 ft. of 5-1/2		
@ \$10/ft.	\$	105,000
Float, centralizer, scratchers, etc.		10,000
Tubing 10,500 ft. of 2-3/8 @ 3/ft.		31,500
Braden head		20,000
Flowline 500 ft. of 2" @	\$1/ft.	500
Variable choke assembly		5,000
Nipples, valves, fittings		5,000
Tank battery w/ stairs & walkway		10,000
Separator		<u>5,000</u>
	Total	<u>\$ 192,000</u>

Estimated Completion Cost - Intangible

Cement 300 sks. @ 8	\$	2,400
Cementing Service & Plug	\$	5,000
Perforating		3,000
Trucking		5,000
Service Unit 100 hrs. @ \$100		10,000
Roustabouts		5,000
Field supervision and engineering		2,500
Formulation stimulation		<u>30,000</u>
	Total	<u>\$ 62,900</u>

Completed Well Cost

Drilling Intangible	\$	<u>167,000</u>
Drilling - Tangible	\$	<u>11,700</u>
Completion - Tangible	\$	<u>192,000</u>
Completion - Intangible	\$	<u>62,900</u>
	Total	<u>\$ 428,600</u>

ECHO PRODUCTION, INC.

A F E

Prospect: Linam (To Drill)
 County: Lea
 State: New Mexico
 Net Acres: 320

Estimated Drilling Costs - Intangible

Drilling Contract		
10,500 @ \$15/ft.	\$ 157,500	
Surveyor & Plat	500	
Location & Pits	5,000	
Water & Damages	15,000	
Drilling Mud, Chemicals	20,000	
Cement - Surf. Csg.		
300 sks @ \$8 surface	2,400	
600 sks @ \$8 intermediate	4,800	
Cementing Service	8,000	
Administrative	1,000	
Field Supervision	2,000	
Geological - 4 days @ \$250 + expenses	1,200	
Drill Stem Tests - 1 @ \$5,000	5,000	
Day Work - 60 hours @ \$200/hr.	12,000	
Logs - Ind. Density Neutron	15,000	
Miscellaneous	10,000	
Plugging if Dry Hole	5,000	
Total		<u>\$264,400</u>

Estimated Drilling Costs - Tangible

13-3/8" Surf. Csg.		
320' @ \$15	\$ 4,800	
8-5/8" Intermediate Csg.		
5000' @ \$10	50,000	
Total		<u>\$ 54,800</u>

Cost to Casing Point

Drilling - Intangible	<u>\$264,400</u>
Drilling - Tangible	<u>\$ 54,800</u>
Total	<u>\$319,200</u>

AFE
Linam Prospect (To Drill)

Estimated Completion Cost - Tangible

Casing 10,500 ft. of 5-1/2 @ \$10/ft.	\$ 105,000	
Float, centralizer, scratchers, etc.	10,000	
Tubing 10,500 ft. of 2-3/8 @ \$3/ft.	31,500	
Well head	20,000	
Flowline 500 ft. of 2" @ \$1/ft.	500	
Variable choke assembly	5,000	
Nipples, valve, fittings	5,000	
Tank battery w/stairs & walkway	10,000	
Seperator	<u>5,000</u>	
Total		<u>\$192,000</u>

Estimated Completion Cost - Intangible

Cement - 300 sks @ \$8	\$ 2,400	
Cementing Service & Plug	5,000	
Perforating	3,000	
Trucking	5,000	
Service unit 100 hours @ \$100/hr.	10,000	
Roustabouts	5,000	
Field Supervision and engineering	2,500	
Formation stimulation	30,000	
Miscellaneous	<u>10,000</u>	
Total		<u>\$ 72,900</u>

Completed Well Cost

Drilling - Intangible	<u>\$ 264,400</u>	
Drilling - Tangible	<u>\$ 54,800</u>	
Completion - Tangible	<u>\$ 192,000</u>	
Completion - Intangible	<u>\$ 72,900</u>	
Total		<u>\$584,100</u>

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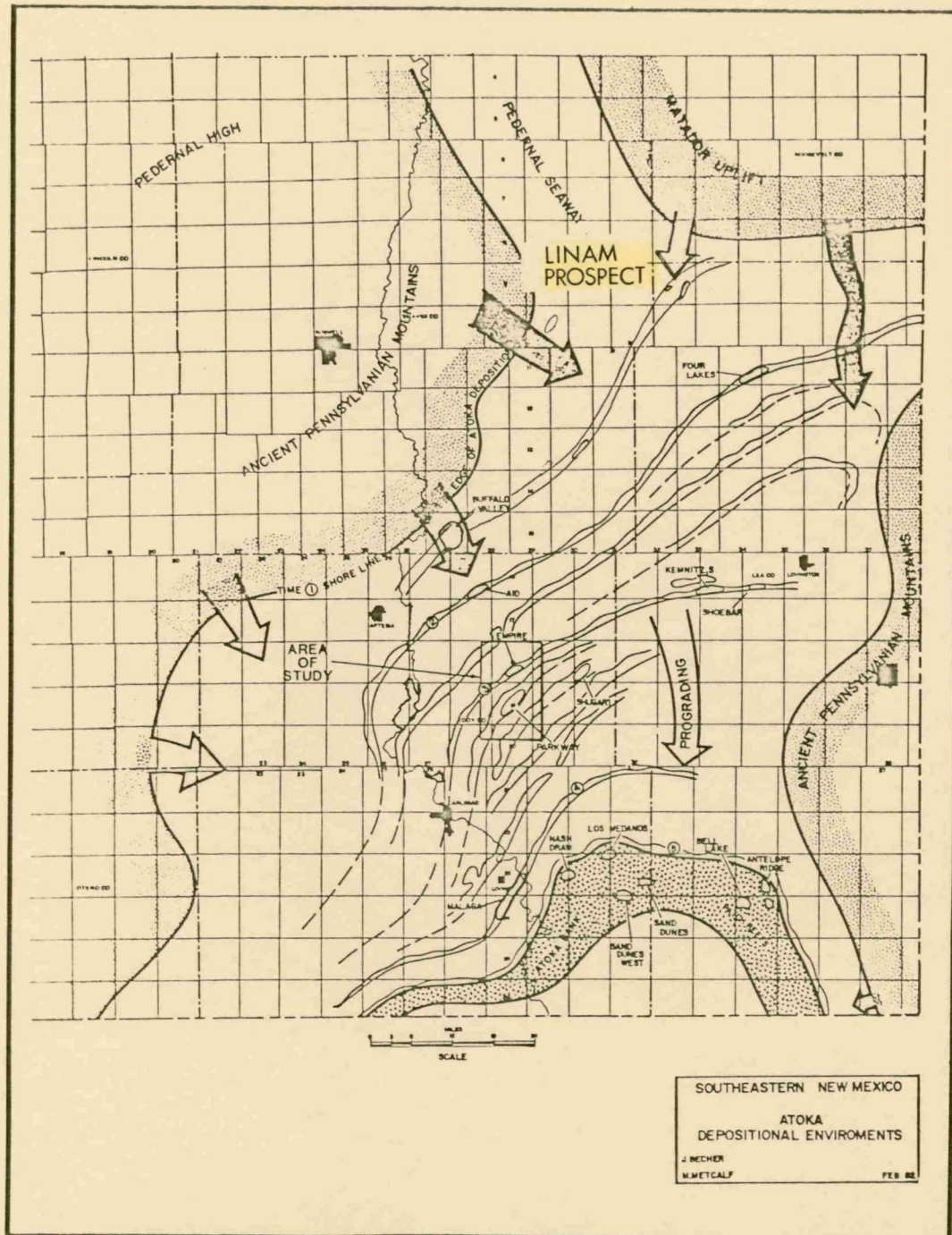
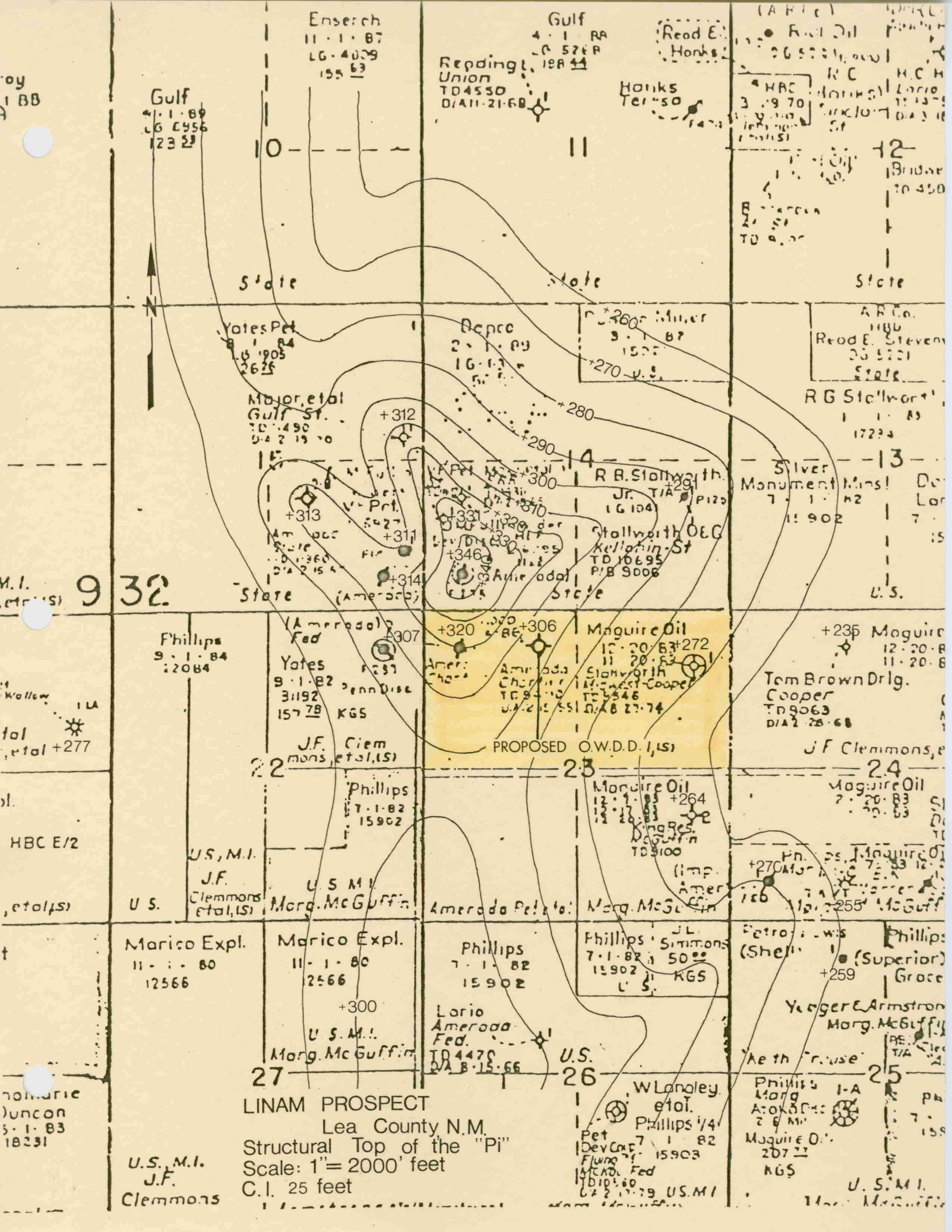


Figure 12. Map of interpreted depositional environments in southeastern New Mexico during the Atoka.

J. S. M. I.
H. H. McCallister



LINAM PROSPECT
Lea County N.M.
Structural Top of the "Pi"
Scale: 1"=2000' feet
C.I. 25 feet

U.S. M.I.
J.F.
Clemmons

W. Lanley
et al.
Phillips 1/4
Pet
Dev. Co. 7-1-82
Fluor
M&D Fed
1/20/80
C.I. 25 feet
U.S. M.I.

Phillips
Mag
A. O. K. Co.
2 8 M
Maguire O.
207 22
KGS
U.S. M.I.
Marg. McGuffin

Marico Expl.
11-1-80
12566

Marico Expl.
11-1-80
12566
+300
U.S. M.I.
Marg. McGuffin

Phillips
7-1-82
15902
Lorio
Ameroda
Fed.
1/24/70
D.A. B. 15-66

Phillips
7-1-82
15902
J.L. Simmons
50%
KGS
U.S.

Petro
(Shell)
+259
Yager & Armstrong
Marg. McGuffin
RE
T/A
C.I. 25 feet

U.S. M.I.
J.F.
Clemmons
et al. (S)

U.S. M.I.
Marg. McGuffin

Ameroda Pet. et al.

Marg. McGuffin

Ph. ps. J. Maguire Oil
7-20-83
11-20-83
+270
Marg. McGuffin

Phillips
9-1-84
12084

(Ameroda)
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15778 KGS
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et al. (S)

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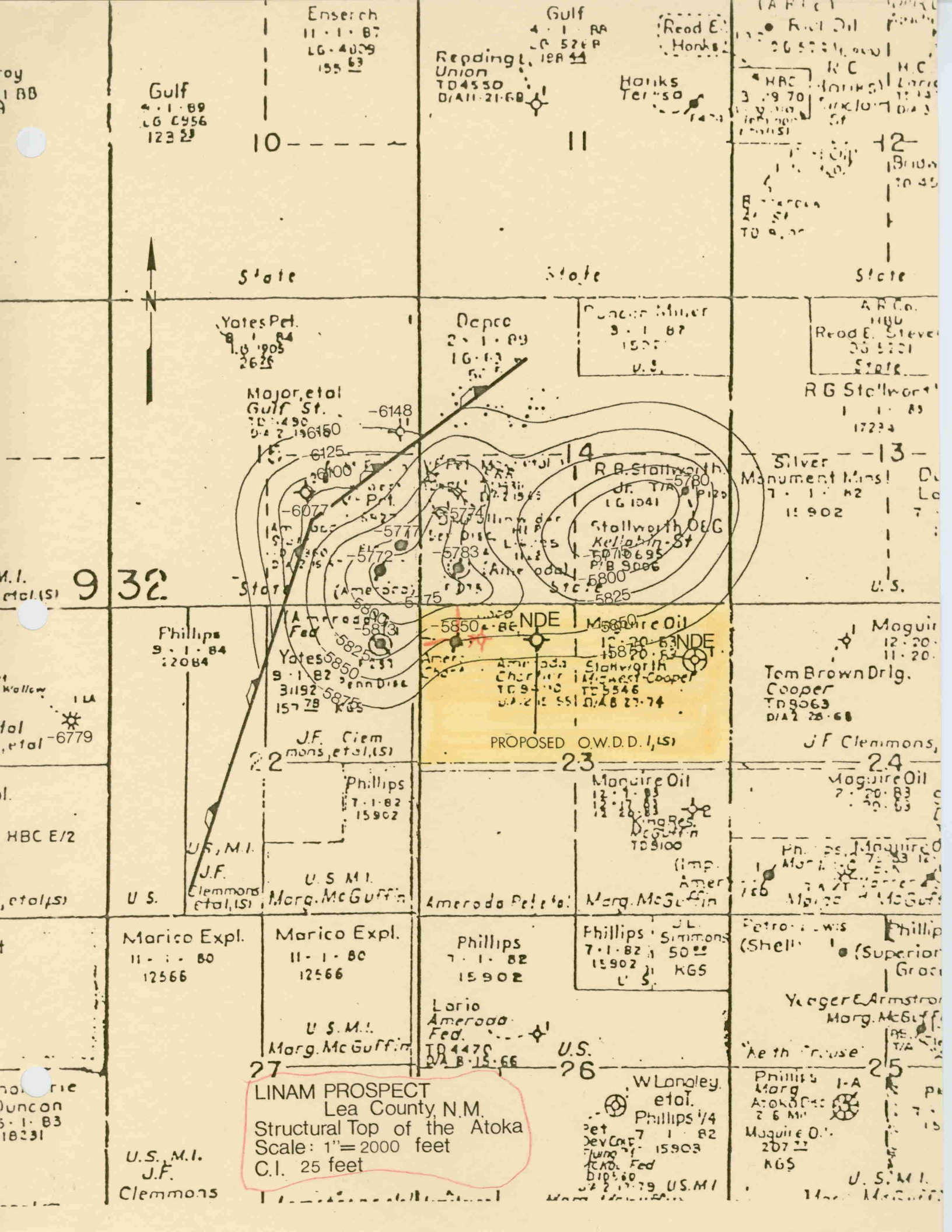
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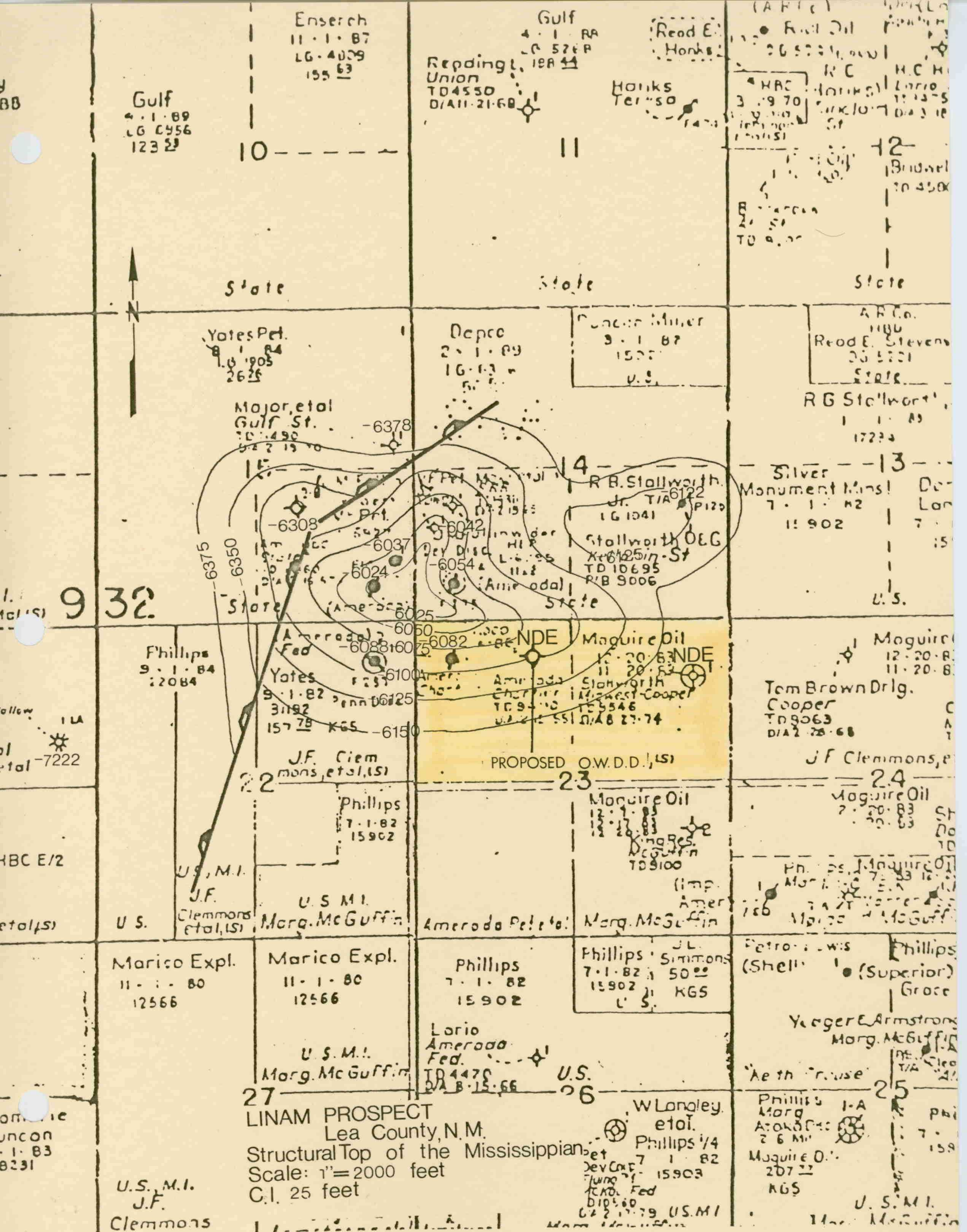
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Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY Amerada Petroleum Corp., Roswell Star Route, Tatum, New Mexico
(Address)

LEASE E. Chartier WELL NO. 2 UNIT D S 23 T 9-S R 32-E

DATE WORK PERFORMED 6-1 thru 15, 1957 POOL S R R Pennsylvanian

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off

☐ Beginning Drilling Operations

☐ Remedial Work

☒ Plugging

☐ Other

Detailed account of work done, nature and quantity of materials used and results obtained.
Approval for plugging obtained from Mr. Montgomery by telephone 6-1-57

Ran McCullough Pipe cutter & cut off 2-3/8" Tbg @ 10050'. Spotted 25 sk. plugs in 5 1/2" Casing from 10050' - 9840', 9200' - 8990' and 7810' - 7600'. Pulled 2-3/8" Tubing. Cut off 5-1/2" casing @ 4150' and pulled & recovered 103 jts. 5-1/2" Casing. Ran 2-3/8" Tubing and spotted 15 sk. cement plugs from 3456' - 3544' and 750' - 838', pulled tubing. Shot off 8-5/8" Casing at 320' and pulled & recovered 8 jts. 8-5/8" Casing. Ran 2-3/8" Tubing and spotted 30 sk. cement plug from 350' to 313', pulled tubing and spotted 15 sk. cement plug in top 13-3/8" casing. Set 4" x 4' abandon marker in top well. Well plugged and abandoned effective 6-15-57. All material moved off location.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. TD PBD Prod. Int. Compl Date

Tbng. Dia Tbng Depth Oil String Dia Oil String Depth

Perf Interval (s)

Open Hole Interval Producing Formation (s)

RESULTS OF WORKOVER:

BEFORE

AFTER

Date of Test

Oil Production, bbls. per day

Gas Production, Mcf per day

Water Production, bbls. per day

Gas-Oil Ratio, cu. ft. per bbl.

Gas Well Potential, Mcf per day

Witnessed by

(Company)

OIL CONSERVATION COMMISSION

Name E. Chartier

Title Oil & Gas Engineer

Date Aug 1 1957

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

Name W. B. Linares

Position Foreman

Company Amerada Petroleum Corporation

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in TRIPLICATE to the District Office, Oil Conservation Commission, within 10 days after the work specified is completed. It should be signed and filed as a report on Beginning Drilling Operations, Results of test of casing shut-off, result of plugging of well, result of well repair, and other important operations, even though the work was witnessed by an agent of the Commission. See additional instructions in the Rules and Regulations of the Commission.

Indicate Nature of Report by Checking Below

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF PLUGGING WELL	☒	REPORT ON RECOMPLETION OPERATION		REPORT ON (Other)	

December 19, 1955
(Date)

Tatum, New Mexico
(Place)

Following is a report on the work done and the results obtained under the heading noted above at the

Amerada Petroleum Corporation

(Company or Operator)

F. E. Chartier

(Lease)

Noble Drilling Corporation

(Contractor)

Well No.

1

in the

NE 1/4

NW 1/4

of Sec. 23

T. 9 S., R. 32 E., NMPM., Undesignated Pool, Lea County.

Dates of this work were as follows: Dec. 14th to 16th, 1955

Notice of intention to do the work ~~(was)~~ (was not) submitted on Form C-102 on _____, 19 _____, and approval of the proposed plan (was) ~~(was not)~~ obtained. *

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

* Approval obtained for the following plugging operations from Mr. Pieder on 12-13-55 by telephone.

9490' Total Depth, Lime. Ran Schlumberger surveys to 9490', no shows of oil or gas. On Drill Stem Test from 9240' - 9278' in Pennsylvanian Zone, recovered 650' of salt water, no oil or gas.

To abandon well the following plugs were set:

45 sx. cement plug from 8054' to 8200'

35 sx. cement plug from 5188' to 5300'

10 sx. Cement plug in top of 13-3/8" Casing

Hole filled with heavy mud between cement plugs. Salvaged 1155' of 8-5/8" Casing. Left in well: 320' of 13-3/8" Surface casing and 4126' of 8-5/8" casing.

A piece of 4" pipe cemented in top of 13-3/8" casing extends five feet above ground level with proper well location to serve as abandoned well marker.

Witnessed by I. W. Wiseman Amerada Petroleum Corporation Foreman
(Name) (Company) (Title)

Approved:

OIL CONSERVATION COMMISSION

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

Name: [Signature]

Position: Assistant District Superintendent

Representing: Amerada Petroleum Corporation

Address: Roswell Star Route, Tatum, N.M.

(Title)

(Date)