

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

SWD 7572
 Airpath AEM State No. 1
 30-025-29865
 Lynx Petroleum
 2015 JUN -2 P 3:20
 RECEIVED OOD
 13645

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>Larry R. Scott</u> Print or Type Name	<u>Larry R. Scott</u> Signature	<u>President</u> Title	<u>9-28-15</u> Date
		<u>Lrscott@leaco.net</u> e-mail Address	

Lynx Petroleum Consultants, Inc.

P.O. Box 1708

3325 Enterprise Drive

Hobbs, New Mexico 88241

575 392-6950

Fax: 575 392-7886

April 28, 2015

Airpath AEM State No. 1
Offset Operators/Leaseholders/Surface Owners

Re: Application for Authority to Inject
Airpath AEM State No. 1
Unit Letter P, Section 8, T-18S, R-36E
Lea County, New Mexico

Gentlemen:

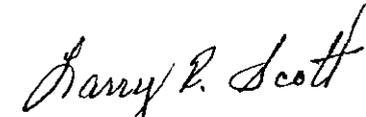
Lynx Petroleum Consultants, Inc. is submitting an application to the New Mexico Oil Conservation Division for an Authorization to Inject produced water into the above referenced wellbore which is currently plugged and abandoned.

The full application with all of the details of the proposed operation is included with this letter for your review. Objections to the application should be submitted to the Division Director, Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within 15 days of your receipt of this packet.

Questions regarding this proposal may be directed to Wes Shields or me at any of the letterhead contacts.

Sincerely,

LYNX PETROLEUM CONSULTANTS, INC.



Larry R. Scott
President

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage
Application qualifies for administrative approval? Yes _____ No

II. OPERATOR: Lynx Petroleum Consultants, Inc.

ADDRESS: P.O. Box 1708 Hobbs, NM 88241

CONTACT PARTY: Wes Shields PHONE: 575-392-6950

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

~~*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.~~

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

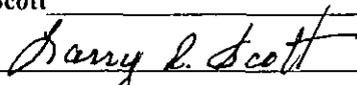
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Larry R. Scott TITLE: President

SIGNATURE:  DATE: 4-30-2015

E-MAIL ADDRESS: weshields@leaco.net or lrscott@leaco.net

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Airpath AEM State No. 1
Form C-108 Additional Data
30-025-29865

- III. Data sheet is attached as Exhibit 'A'. A schematic of the current wellbore status is attached as Exhibit 'B'. A schematic of the "as completed" disposal well is attached as Exhibit 'C'.
- IV. This is a new project.
- V. Map is attached as Exhibit 'D'.
- VI. No other wells penetrate the proposed injection interval within the area of review.
- VII. Data on the proposed operations:
1. Average daily rate: 7500 bbls.; Maximum daily rate: 15000 bbls.
 2. The system will be closed
 3. Average injection pressure: 300 psig; Maximum injection pressure: 1500 psig
 4. As this is proposed to be a commercial operation the source of injected fluid could be water produced from any of the formations in the vicinity including but not limited to Yates, Sever Rivers, Queen, Grayburg, San Andres, Delaware, and Bone Springs.
 5. The South Vacuum Devonian field is located approximately 4 miles southwest in Township 18S, Range 35E. The producing interval is 11,550' to 11,750'. A water analysis published by the Roswell Geological Society for the South Vacuum Devonian field is attached as Exhibit 'E'.
- VIII. Injection will be into the Devonian horizon in the interval 12,850'-13,004'. The interval consists of limestone and dolomite. A well log with formation tops named above the injection interval is attached as Exhibit 'F'. A search of the New Mexico State Engineer's Waters database reveals water wells as shown in Exhibit 'G'. Sample analyses from two wells in the immediate vicinity are shown in Exhibits "H1" and "H2".
- IX. The open hole interval 12,850'-13,004' will be stimulated with 5000 gallons 15% HCL-NE-FE acid.
- X. Logs and test data for this wellbore have been previously submitted.
- XI. Please see VIII above.
- XII. I have examined all available geologic and engineering data surrounding this wellbore and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of notice return receipts are attached.

By: _____

Larry R. Scott

Date: _____

4-27-15

INJECTION WELL DATA SHEET

OPERATOR: Lynx Petroleum Consultants, Inc.

WELL NAME & NUMBER: Airpath AEM State No. 1

630-

WELL LOCATION: 660' FSL & 660' FEL
FOOTAGE LOCATION

P 8 18S 36E
UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See attached Exhibits 'B' and 'C'
for current and proposed wellbore
schematics.

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 425 sx. or ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8"

Cemented with: 1010 sx. or ft³

Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 1400 sx. or ft³

Top of Cement: 3,500' Method Determined: CBL

Total Depth: 13,004'

Injection Interval

4340' feet To 5500'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: **3-1/2"** _____ Lining Material: **Internally Plastic Coated** _____

Type of Packer: **Nickel Plated AS-1X or equivalent** _____

Packer Setting Depth: **Approximately 12,800'** _____

Other Type of Tubing/Casing Seal (if applicable): **N/A** _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes No

If no, for what purpose was the well originally drilled? **Wildcat well to Devonian**
formation _____

2. Name of the Injection Formation: **Devonian** _____

3. Name of Field or Pool (if applicable): **N/A** _____

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

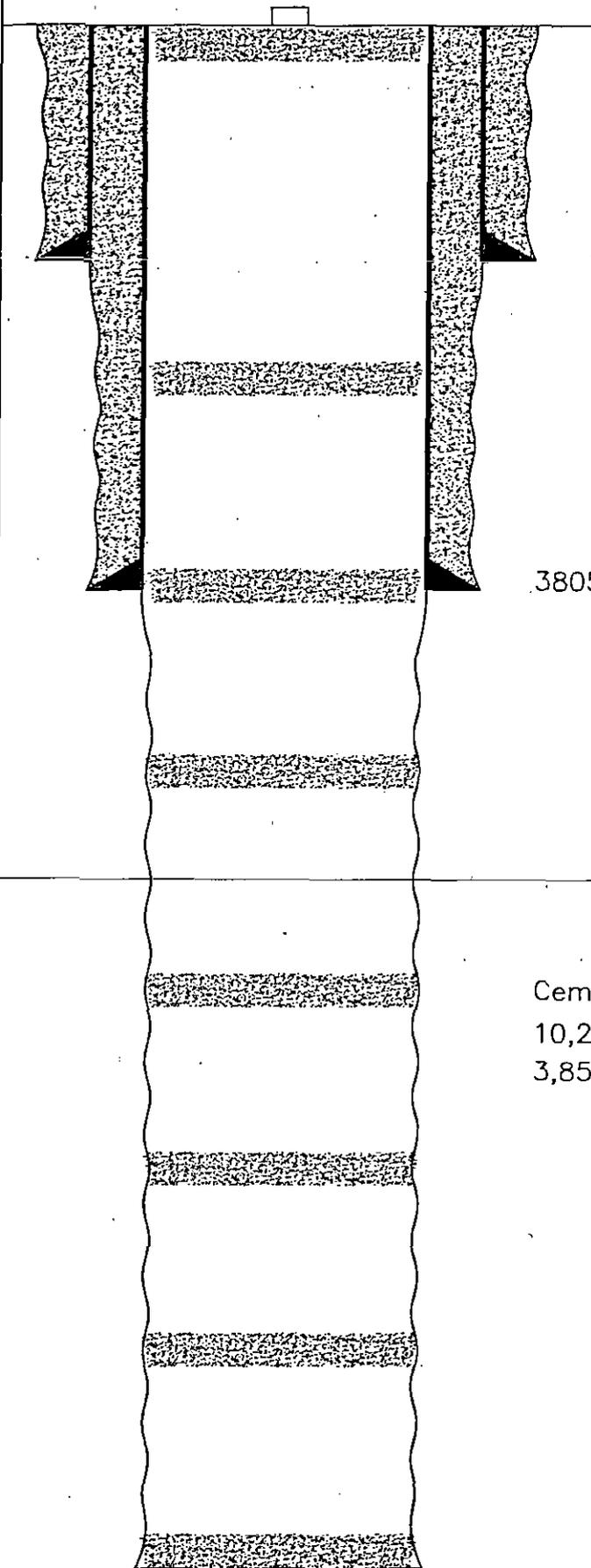
See Schematic _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Bone Springs overlies the proposed injection zone. _____

Exhibit 'B'
Existing Plugged & Abandoned Wellbore
04/30/2015

Elevation: 3838'GL KB: +15'



17-1/2" Hole
425' - 13 3/8", J-55, 54.5#, ST&C Casing
Cemented w/425 sxs. Circulated to Surf.

11" Hole
3805' - 8-5/8", J-55, 32#, ST&C Casing.
Cemented w/1500 sxs. Circulated to Surface

7-7/8" Hole

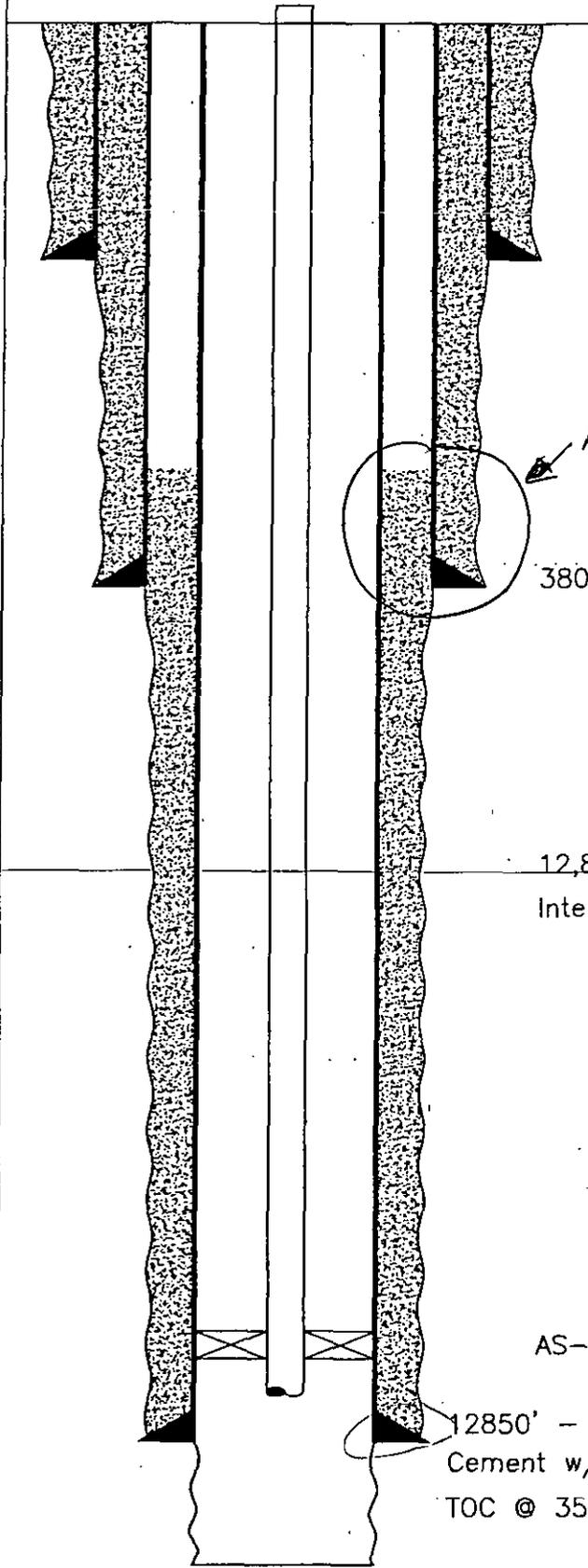
Cement Plugs 12,844'-12,744', 11,525'-11,425',
10,200'-10,100', 6,960'-6,860', 5,250'-5,2150',
3,850'-3,750', 2,100'-2,000', & Surface

T.D. @ 13004'

Lynx Petroleum Cons.
Airpath AEM St. No. 1
660' FSL & 660' FEL
Sec. 8, T-18S, R-36E
Lea County, N.M.

Exhibit 'C'
 As Completed Disposal Wellbore
 04/30/2015

Elevation: 3738'GL KB: +15'



17-1/2" Hole
 425' - 13 3/8", J-55, 54.5#, ST&C Casing
 Cemented w/425 sxs. Circulated to Surf.

neg. CBL

11" Hole
 3805' - 8-5/8", J-55, 32#, ST&C Casing.
 Cemented w/1500 sxs. Circulated to Surface

7-7/8" Hole

12,800' 3-1/2", 10.3#, N-80 Hydril CS or equivalent
 Internally Plastic Coated

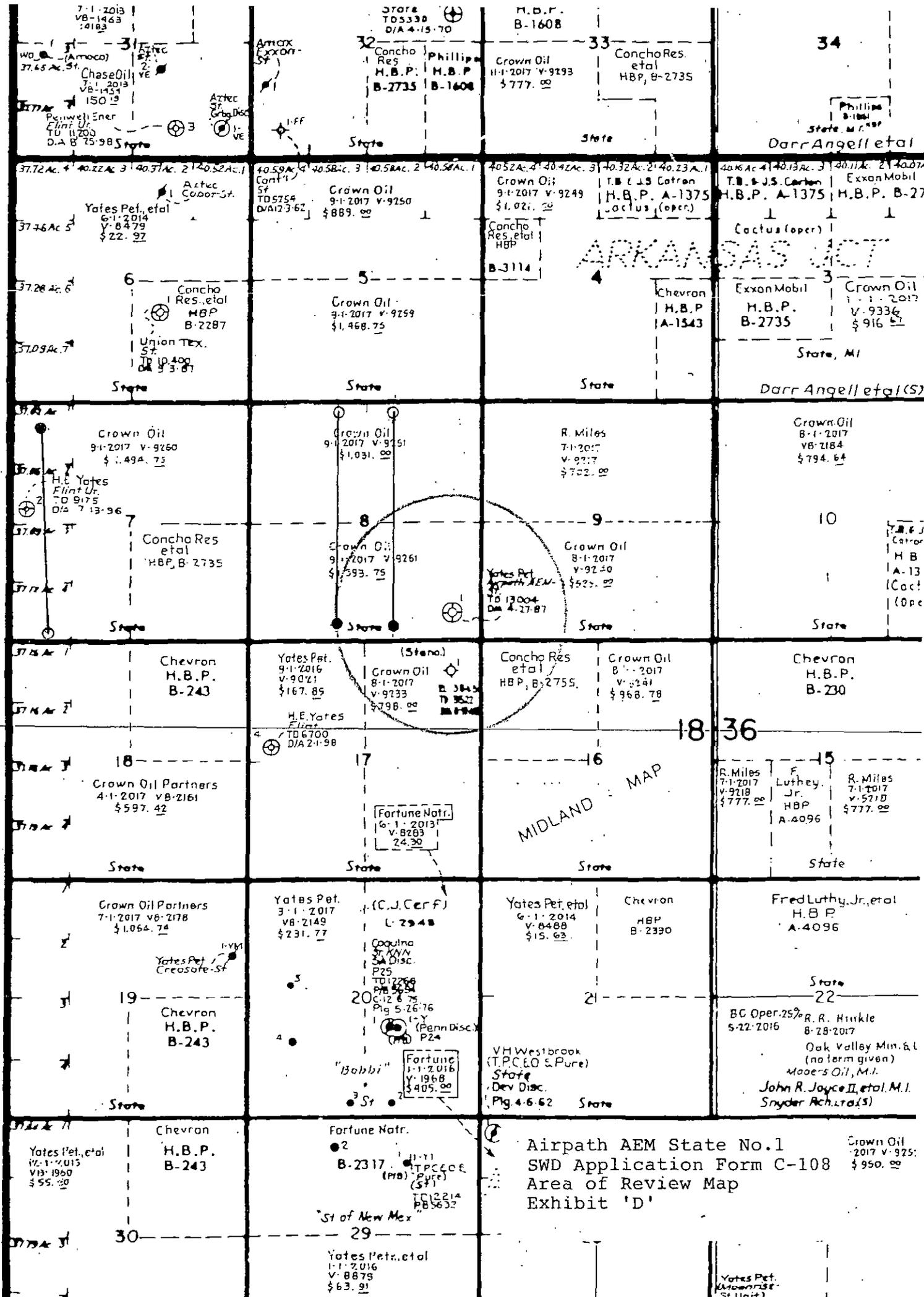
AS-1X Nickel plated packer or equivalent

12850' - 5 1/2", 17#, N-80, LT&C
 Cement w/1400 sx. to tie back into 8-5/8" casing

TOC @ 3500'

T.D. @ 13004'

Lynx Petroleum Cons.
Airpath AEM St. No. 1
660' FSL & 660' FEL
Sec. 8, T-18S, R-36E
Lea County, N.M.



7-1-2013
VB-1463
24183

W.O. (Amoco)
37.65 Ac. St.
Chase Oil
7-1-2013
VB-1431
ISO 13

Penwell Ener
Flint Ur.
TU 11203
D.A. B-25-98 State

Arttec
SF
Cobra Disc
1-VE

Store
TDS330
D/A 4-15-70

32
Concho Res
H.B.P.
B-2735

Phillips
H.B.P.
B-1608

Crown Oil
11-1-2017 V-9293
\$777.00

M.B.P.
B-1608

33
Concho Res.
etal
HBP, B-2735

34
Phillips
H.B.P.
State, M.I.

Darr Angell et al

37.72 Ac. 4 40.22 Ac. 3 40.31 Ac. 2 40.52 Ac. 1

Arttec
Cobra Disc
St.

Yates Pet., et al
6-1-2014
V-8479
\$22.92

37.76 Ac. 5

37.28 Ac. 6

37.09 Ac. 7

Concho Res. et al
HBP
B-2287

Union TEX.
St.
TU 10400
D.A. B-3-87

40.59 Ac. 4 40.58 Ac. 3 40.58 Ac. 2 40.58 Ac. 1

Cont. SF

Crown Oil
9-1-2017 V-9250
\$889.00

Concho Res. et al
HBP
B-3114

Crown Oil
9-1-2017 V-9259
\$1,468.75

40.52 Ac. 4 40.42 Ac. 3 40.32 Ac. 2 40.23 Ac. 1

Crown Oil
9-1-2017 V-9249
\$1,021.00

Concho Res. et al
HBP

T.B. & J.S. Cartor
H.B.P. A-1375
Cactus (oper.)

Chevron
H.B.P.
A-1343

40.6 Ac. 4 40.13 Ac. 3 40.11 Ac. 2 40.07 Ac. 1

T.B. & J.S. Cartor
H.B.P. A-1375

Exxon Mobil
H.B.P. B-27

Cactus (oper.)

3
Crown Oil
1-1-2017
V-9336
\$916.00

State, MI

Darr Angell et al (S)

ARKANSAS LOT

37.25 Ac. 1

Crown Oil
9-1-2017 V-9260
\$1,494.75

H.C. Yates
Flint Ur.
TU 9175
D/A 7-13-96

37.29 Ac. 2

37.27 Ac. 3

Concho Res et al
HBP, B-2735

Crown Oil
9-1-2017 V-9251
\$1,031.00

Crown Oil
9-1-2017 V-9261
\$1,593.75

Yates Pet.
Flint Ur.
TU 13004
D/A 4-27-87

R. Miles
7-1-2017
V-9217
\$702.00

Crown Oil
8-1-2017
V-9250
\$525.00

State

Crown Oil
8-1-2017
VB-2184
\$794.64

10

J.M. & J. Cartor
H.B.P.
A-13
Cactus (oper.)

37.25 Ac. 1

Chevron
H.B.P.
B-243

37.26 Ac. 2

37.27 Ac. 3

Crown Oil Partners
4-1-2017 VB-2161
\$597.42

Yates Pet.
9-1-2016
V-9021
\$167.85

H.E. Yates
Flint Ur.
TU 6700
D/A 2-1-98

(Steno.)
Crown Oil
8-1-2017
V-9233
\$798.00

Concho Res et al
HBP, B-2755

Crown Oil
8-1-2017
V-9241
\$968.78

Fortune Natr.
6-1-2013
V-8283
24.30

18 36

MIDLAND MAP

State

Chevron
H.B.P.
B-230

15

R. Miles
7-1-2017
V-9218
\$777.00

F. Luthy, Jr.
HBP
A-4096

R. Miles
7-1-2017
V-5218
\$777.00

Crown Oil Partners
7-1-2017 VB-2178
\$1,064.74

Yates Pet. / Creasafe-St

19
Chevron
H.B.P.
B-243

Yates Pet.
3-1-2017
VB-2149
\$231.77

(C.J. Cerf)
L-2948

Coquina
St. XAV
SA Disc.
P25
TU 12268
PB 5654
C-12 8-75
Pg 5-26-76
(Penn Disc.)
P24

"Bobbi"
1-1-2016
V-1968
\$405.00

Fortune
1-1-2016
V-1968
\$405.00

VH Westbrook
(TPC&O & Pure)
State
Dev Disc.
Pg. 4-6-62

Yates Pet. et al
6-1-2014
V-8488
\$15.63

Chevron
HBP
B-2330

21

State

Fred Luthy, Jr. et al
H.B.P.
A-4096

22

BC Oper. 25%
5-22-2016

R. R. Hinkle
8-28-2017

Oak Valley Min. & L
(no term given)
Moore's Oil, M.I.
John R. Joyce II, et al, M.I.
Snyder Ach. Ltd (S)

Yates Pet. et al
12-1-2015
VB-1960
\$55.00

Chevron
H.B.P.
B-243

30

Fortune Natr.
B-2317

St of New Mex

29

Yates Pet. et al
1-1-2016
V-8875
\$63.91

Airpath AEM State No.1
SWD Application Form C-108
Area of Review Map
Exhibit 'D'

Crown Oil
2017 V-9251
\$950.00

Yates Pet.
(Moore's Oil
St. Unit)

Data prepared by: G. E. Upp
 Affiliation: Mobil Oil Company
 Date: July 15, 1960

Field Name: South Vacuum Devonian
 Location: T.18 S., R.35 E.
 County & State: Lea Co., N. Mex.
 Unit

DISCOVERY WELL: Union of Calif. #1-35 South Vacuum/COMPLETION DATE: Jan 26, 1958

PAY ZONE: Devonian dolomite, fine to coarse crystalline, light gray to white, fractured, with vuggy and intercrystalline porosity.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in millidarcys		% Porosity	Liquid Saturation (% of pore space)	
Horizontal	Vertical		Water	Oil
116	86	5.9	32.3	25.3

OTHER SHOWS ENCOUNTERED IN THIS FIELD: Bone Spring (See South Vacuum-Bone Spring data sheet), Wolfcamp, Pennsylvanian, McKee.

TRAP TYPE: Faulted Anticline
 NATURE OF OIL: Gravity 48° API
 NATURE OF GAS: Sweet
 NATURE OF PRODUCING ZONE WATER:

Resistivity: 0.26 ohm-meters @ 68 °F.

	Total Solids	Na+K	Ca	Mg	Fe	SO ₄	Cl	CO ₂	HCO ₃	OH	H ₂ S
ppm	27121	4868	3996	783	2	1444	15504				

INITIAL FIELD PRESSURE: 4800 psi

TYPE OF DRIVE: Water Drive

NORMAL COMPLETION PRACTICES: Set casing through pay zone, perforate and acidize if necessary.

PRODUCTION DATA:

Year	Type	No. of wells @ yr. end		Production Oil in barrels Gas in MMCF	
		Producing	Shut in or Abnd.	Annual	Cumulative
	gas				
1957	oil				
	gas				
1958	oil	4		139,773	139,773
	gas			7.6	7.6
1959	oil	10		442,257	592,663
	gas			35.9	43.5
1960*	oil	13		335,173	927,836
	gas			26.5	70.0

* 1960 Figure is production to July 1, 1960.

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, two vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. This form is to be filed in quadruplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn 11247	T. Kirtland-Fruitland _____	T. Penn. "C" _____
U. Salt _____	T. Atoka 11338	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss Lime 11956	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian 12844	T. Menefee _____	T. Madison _____
T. Queen 4510	T. MORROW LM 11524	T. Point Lookout _____	T. Elbert _____
T. Grayburg 5254	T. MORROW CL 11788	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Stinson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. WOODFORD SHALE 12648	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Elinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand 5912	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs 6780	T. Wingate _____	T. _____
T. Wolfcamp 10408	T. 1st B.S. Sd 8674	T. Chinle _____	T. _____
T. Penn. Shale 10929	T. 2nd B.S. Sd 9146	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. 3rd B.S. Sd 10232	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

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

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	425	425	Surface, Rock	7380	8600	1220	Lime, Sh
425	1700	1275	Redbeds	8600	9480	880	Lm, Sh, Sd
1700	2068	368	Anhy	9480	9680	200	Lm, Sh, Sd, Cht
2068	3800	1732	Anhy, Salt	9680	11008	1328	Lm, Sh, Cht
3800	4070	270	Anhy, Dolo	11008	11500	492	Lm, Sh, Sd
4070	4200	130	Anhy, Tr. SS, Tr. Sh	11500	11730	230	LS, Sh, Oolitic LS, Cht
4200	4500	300	Anhy, Sh	11730	12000	270	Sh, LS, Cht
4500	4716	216	Dolo, Anhy, Sh	12000	12220	220	Lm, Cht
4716	5086	370	Dolo, Anhy, Sd	12220	12900	680	Lime
5086	5680	594	Dolo, Anhy, Sd, Sh	12900	13004	104	Dolomite
5680	5960	280	Dolo				
5960	6166	206	Sd, Lm, Dolo				
6166	6960	794	Sd, Dolo, Sh				
6960	7380	420	Lime				

Airpath AEM State No. 1
 SWD Application Form C-108
 Well Log Tops
 Exhibit 'F'



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD		Q Q Q					X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec						Tws
<u>L 01632</u>	L	LE	1	1	1	04	18S	36E	654378	3627041	240	32	208
<u>L 01632 S</u>	L	LE		1	4	04	18S	36E	653840	3627518*	120	50	70
<u>L 01632 S2</u>	L	LE		1	3	04	18S	36E	653034	3627502*	120	50	70
<u>L 01632 S3</u>	L	LE		1	2	04	18S	36E	653828	3628323*	120	50	70
<u>L 01632 S4</u>	L	LE	4	4	4	04	18S	36E	654347	3627022*	150	60	90
<u>L 04709</u>	L	LE		2	2	06	18S	36E	651009	3628274*	100	45	55
<u>L 05030</u>	L	LE			1	05	18S	36E	651618	3628078*	80	35	45
<u>L 05200</u>	L	LE		1	1	09	18S	36E	653046	3626697*	223	65	158
<u>L 08382</u>	L	LE	1	4	4	04	18S	36E	654147	3627222*	150	85	65
<u>L 08694</u>	L	LE	2	1	2	08	18S	36E	652340	3626781*	120	52	68
<u>L 08736</u>	L	LE	2	4	3	09	18S	36E	653568	3625595*	150		
<u>L 13602 POD1</u>	L	LE	1	2	2	18	18S	36E	651033	3625091	210	60	150

Average Depth to Water: 53 feet

Minimum Depth: 32 feet

Maximum Depth: 85 feet

Record Count: 12

Basin/County Search:

County: Lea

PLSS Search:

Section(s): 4, 5, 6, 7, 8, 9, Township: 18S Range: 36E
16, 17, 18

Airpath AEM State No. 1
SWD Application Form C-108
Fresh Water in Area of Rev.
Exhibit 'G'

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

February 09, 2015

WES SHIELDS
LYNX PETROLEUM
P. O. BOX 1708
HOBBS, NM 88241

RE: AIRPATH

Enclosed are the results of analyses for samples received by the laboratory on 02/05/15 10:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 LYNX PETROLEUM
 WES SHIELDS
 P. O. BOX 1708
 HOBBS NM, 88241
 Fax To: (575) 392-7886

Received:	02/05/2015	Sampling Date:	02/05/2015
Reported:	02/09/2015	Sampling Type:	Water
Project Name:	AIRPATH	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #10 (H500328-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	44.0	4.00	02/05/2015	ND	104	104	100	3.92		
TPH 8015M		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<1.00	1.00	02/06/2015	ND	47.3	94.6	50.0	4.42		
DRO >C10-C26	2.39	1.00	02/06/2015	ND	47.0	94.0	50.0	2.97		
EXT DRO >C28-C35	<1.00	1.00	02/06/2015	ND	ND		0.00			
Surrogate: 1-Chlorooctane		103 %	36.1-161							
Surrogate: 1-Chlorooctadecane		87.1 %	36-171							

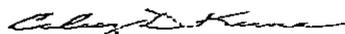
Sample ID: #3 (H500328-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	28.0	4.00	02/05/2015	ND	104	104	100	3.92		
TPH 8015M		mg/L		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<1.00	1.00	02/06/2015	ND	47.3	94.6	50.0	4.42		
DRO >C10-C28	<1.00	1.00	02/06/2015	ND	47.0	94.0	50.0	2.97		
EXT DRO >C28-C35	<1.00	1.00	02/06/2015	ND	ND		0.00			
Surrogate: 1-Chlorooctane		100 %	36.1-161							
Surrogate: 1-Chlorooctadecane		80.1 %	36-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

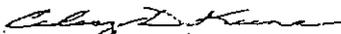
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Lynx Petroleum</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Wes Shields</u>		P.O. #:													
Address: <u>P.O. Box 1708</u>		Company:													
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u>		Attn:													
Phone #: <u>392-6950</u> Fax #: <u>392-7886</u>		Address:													
Project #:		Project Owner:		City:											
Project Name: <u>Airpath</u>		State:		Zip:											
Project Location: <u>Lea County, NM</u>		Phone #:													
Sampler Name: <u>Wes Shields</u>		Fax #:													

FOR LAB USE ONLY		# CONTAINERS	MATRIX							PRESERV.		SAMPLING		DATE	TIME	TPH	SOIL
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICEST/COOL	OTHER						
H500328		1											2/5/14	9:00	✓	✓	
	1 #1D	2												9:30	✓	✓	
	2 #3																

PLEASE NOTE: Liability and Damages. Cardinal Laboratories and clients exclusive liability for any third party (whether third party or not) and the amount of the amount paid by the client for the analysis. All claims (including those for negligence and any other cause whatsoever) shall be deemed waived unless made in writing and received by Cardinal within 21 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories of liability.

Relinquished By: <u>Wes Shields</u>	Date: <u>2/5/14</u>	Received By: <u>Wendi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>10:25</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>WA</u>	REMARKS: <u>Weshields@leaco.net</u> <u>Samples taken & brought</u> <u>directly to lab. WA</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Order Receipt

Hobbs Daily News-Sun

201 N Thorp
P. O. Box 936
Hobbs, NM 88241
Phone: 575-393-2123
Fax: 575-397-0610
URL: www.hobbsnews.com

LARRY SCOTT
LYNX PETROLEUM
P.O. BOX 1708
HOBBS, NM 88241

Cust#: 67111441
Ad #: 00155740
Phone: (575)392-6950
Date: 04/29/2015
Salesperson: Ad Taker: C2

Sort Line: 129992 Airpath AEM State No.!

Class: 671

Description	Start	Stop	Ins.	Cost/Day	Amount
AFF2 Affidavits (Legals)					6.00
BOLD bold					1.00
07 07 Daily News-Sun	05/2/2015	05/2/2015	1	22.47	22.47

RECEIVED MAY 6 2015

Ad Text:

LEGAL NOTICE
May 2, 2015

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Lynx Petroleum Consultants, Inc., is filing a C-108, Application for Salt Water Disposal. The well being applied for is the Airpath AEM State No. 1, located in Unit Letter P, Section 8, T-18S, R-36E, Lea County, New Mexico. The injection formation is the Devonian from 12,850' below the surface. Expected maximum injection rate is 15,000 BPD, and the maximum injection pressure is 1500 psig. Any questions about the application can be directed to

Payment Reference:

Total: 29.47
Tax: 2.01
Net: 31.48
Prepaid: 0.00
Total Due 31.48

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

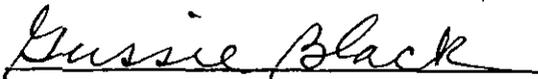
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
May 02, 2015
and ending with the issue dated
May 02, 2015.



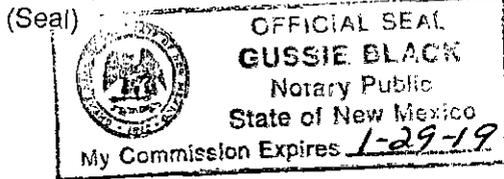
Publisher

Sworn and subscribed to before me this
2nd day of May 2015.



Business Manager

My commission expires
January 29, 2019



LEGALS
LEGAL NOTICE
May 2, 2015
Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Lynx Petroleum Consultants, Inc. is filing a C-108, Application for Salt Water Disposal. The well being applied for is the Airpath AEM State No. 1, located in Unit Letter P, Section 8, T-18S, R-36E, Lea County, New Mexico. The injection formation is the Devonian from 12,850' below the surface. Expected maximum injection rate is 15,000 BPD and the maximum injection pressure is 1500 psig. Any questions about the application can be directed to Wes Shields, (575) 342-6950 or any objection or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, 1220 South Saint Francis Drive, Santa Fe, MN 87504, within fifteen (15) days.
#29992

67111454

00155740

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LARRY SCOTT
LYNX PETROLEUM
P.O. BOX 1708
HOBBS, NM 88241

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Yates Petroleum
105 S. Fourth Street
Artesia, NM 88210

2. Article Number
(Transfer from service label)

7014 3490 0002 2320 0302

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) C. Date of Delivery
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Concho Oil & Gas, LLC
600 W. Illinois
Midland, TX 79701

2. Article Number
(Transfer from service label)

7014 3490 0002 2320 0265

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) C. Date of Delivery
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Devon Energy Production
333 W. Sheridan Ave.
Oklahoma City, OK 73102

2. Article Number
(Transfer from service label)

7014 3490 0002 2320 0296

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
 Addressee
- B. Received by (Printed Name) C. Date of Delivery
- D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Certified Mail® Priority Mail Express™
 Registered Return Receipt for Merchandise
 Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

807900544828

Ship (P/U) date :
Wed 5/27/2015 3:46 pm

Actual delivery :
Thur 5/28/2015 8:20 am

HOB US

Delivered

NM US

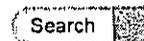
Signed for by: J.PADILLA

Travel History

Date/Time	Activity	Location
5/28/2015 - Thursday		
8:20 am	Delivered	NM
7:37 am	On FedEx vehicle for delivery	SANTA FE, NM
7:31 am	At local FedEx facility	SANTA FE, NM
5:49 am	At destination sort facility	ALBUQUERQUE, NM
4:39 am	Departed FedEx location	MEMPHIS, TN
5/27/2015 - Wednesday		
11:33 pm	Arrived at FedEx location	MEMPHIS, TN
5:58 pm	Left FedEx origin facility	HOBBS, NM
3:46 pm	Picked up	HOBBS, NM

Shipment Facts

Tracking number	807900544828	Service	FedEx First Overnight
Delivered To	Mailroom	Total pieces	1
Packaging	FedEx Envelope	Special handling section	Deliver Weekday



Customer Focus
New Customer Center
Small Business Center

Featured Services
FedEx One Rate
FedEx SameDay

Companies
FedEx Express
FedEx Ground



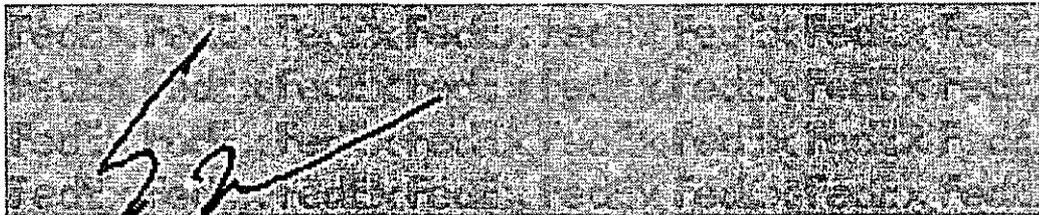
May 28, 2015

Dear Customer:

The following is the proof-of-delivery for tracking number **807900544828**.

Delivery Information:

Status:	Delivered	Delivered to:	Mailroom
Signed for by:	J.PADILLA	Delivery location:	310 OLD SANTA FE TRL NM 87501
Service type:	FedEx First Overnight	Delivery date:	May 28, 2015 08:20
Special Handling:	Deliver Weekday		



Shipping Information:

Tracking number:	807900544828	Ship date:	May 27, 2015
-------------------------	--------------	-------------------	--------------

Recipient:
ANCHOR HOLM
STATE LAND OFFICE
310 OLD SANTA FE TRL
NM 87501 US

Shipper:
HOB 88241 US



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 11, 2015

WES SHIELDS
LYNX PETROLEUM
P. O. BOX 1708
HOBBS, NM 88241

RE: AIR PATH DISPOSAL

Enclosed are the results of analyses for samples received by the laboratory on 08/03/15 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE

Analytical Results For:

 LYNX PETROLEUM
 WES SHIELDS
 P. O. BOX 1708
 HOBBS NM, 88241
 Fax To: (575) 392-7886

Received:	08/03/2015	Sampling Date:	08/03/2015
Reported:	08/11/2015	Sampling Type:	Wastewater
Project Name:	AIR PATH DISPOSAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: ARCO ST. #1 WOLFCAMP ZONE (H502001-01)

Chloride, SM4500CI-B	mg/L	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	79000	4.00	08/05/2015	ND	100	100	100	7.69	

Sample ID: DUNKEL 7 ST. 1H BONE SPRINGS (H502001-02)

Chloride, SM4500CI-B	mg/L	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	118000	4.00	08/05/2015	ND	100	100	100	7.69	

DRAFT REPORT

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

DRAFT REPORT, DATA SUBJECT TO CHANGE

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

DRAFT REPORT

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

DRAFT REPORT, DATA SUBJECT TO CHANGE

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Unix</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Wes Shields</u>		P.O. #:		Cationic Anion																							
Address:		Company:																									
City: State: Zip:		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: <u>Air Path Disposal</u>		State: Zip:																									
Project Location: <u>Lea County, NM</u>		Phone #:																									
Sampler Name: <u>Wes Shields</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.)	# CONTAINERS													MATRIX					PRESERV.		SAMPLING				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME													
<u>HS02001</u>	<u>1 Arcost. #1 Wolfcamp 2r G</u>	<u>1</u>	<u>1</u>		<input checked="" type="checkbox"/>								<u>8/3/15</u>	<u>11:30</u>	<input checked="" type="checkbox"/>												
	<u>2 Dunkel 7 St. 1H</u>	<u>6</u>	<u>1</u>		<input checked="" type="checkbox"/>								<u>†</u>	<u>†</u>	<input checked="" type="checkbox"/>												
	<u>Bone Springs</u>																										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits (incurred by client or subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Wes Shields</u>	Date: <u>8/3/15</u>	Received By: <u>Jodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>5:30</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		<u>Wes Shields @ lead.net</u>
Delivered By: (Circle One)	Sample Condition	Checked By:	
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> No <input type="checkbox"/> No	<u>Wes Shields</u>	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54



PERMIT TYPE: WFX / PMX (SWP) Number: _____ Permit Date: _____ Legacy Permits/Orders: _____

Well No. 1 Well Name(s): Airpath AEM state

API: 30-0 25-29865 Spud Date: 3-13-87 New or Old: new (UIC Class II Primacy 03/07/1982)

Footages 660FSL Lot _____ or Unit P Sec 8 Tsp 18S Rge 36E County LEC

General Location: 2 miles W Hobbs Pool: Sud, DEUCHIAN Pool No.: _____

BLM 100K Map: Hobbs Operator: Petroleum OGRID: 13645 Contact: SCOTT

COMPLIANCE RULE 5.9: Total Wells: 4 Inactive: _____ Fincl Assur: Y Compl. Order? N IS 5.9 OK? Y Date: 8-26-2015

WELL FILE REVIEWED Current Status: P&A

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: _____

Planned Rehab Work to Well: * CBL 8 5/8 5 5 1/2

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	17 1/2 / 13 3/8	425	425	SURFACE / V
Planned ___ or Existing ___ Interm/Prod	11 1/4 / 5 1/8	3805	1500	SURFACE / V
Planned ___ or Existing ___ Interm/Prod	7 7/8 / 5 1/2	12850	1500	3500 / CBL*
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing <u>(OH) PERF</u>	12850 / 13004		Inj Length: 154	

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.		W	12648	Drilled TD <u>13004</u> PBTD _____
Confining Unit: Litho. Struc. Por.		DEV	12850	NEW TD <u>13004</u> NEW PBTD _____
Proposed Inj Interval TOP:	12850			NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval BOTTOM:	13004			Tubing Size <u>3 1/2</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>12800</u> ft
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>12250</u> (100-ft limit)
				Proposed Max. Surface Press. <u>1500</u> psi
				Admin. Inj. Press. <u>2570</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? N/A BLM Sec Ord WIPP Noticed? _____ SALT/SALADO T: _____ B: _____ CLIFF HOUSE _____

FRESH WATER: Aquifer Quaternary Max Depth 230 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: LEC CAPITAN REEF: thru adj NAD No. Wells within 1-Mile Radius? 10 FW Analysis

Disposal Fluid: Formation Source(s) Yates-Gravelly sandstone Analysis? _____ On Lease Operator Only or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 1500/1500 Protectable Waters? _____ Source: _____ System: Closed or Open

HC Potential: Producing Interval? _____ Formerly Producing? N Method: Logs DST/P&A/Other _____ 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Y Well List? N/A Total No. Wells Penetrating Interval: N/A Horizontals? _____

Penetrating Wells: No. Active Wells N/A Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells _____ Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date MAY 2, 2015 Mineral Owner NMSLO Surface Owner NMSLO N. Date 5/28/2015

RULE 26.7(A): Identified Tracts? _____ Affected Persons: Yates Petroleum, Conoco N. Date 5/11

Permit Conditions: Issues: See Above requirements CBL

Add Permit Cond: _____