

DATE IN 5/23/05	SUSPENSE 6/9/05	ENGINEER WWS	LOGGED IN 5/23/05	TYPE SWD 983	APP NO. NWS 5056131326
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



Poker Lake UNIT  
#71A

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS 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 \_\_\_\_\_

SWAB Test  
 2 sent to DIVISION  
 30-015-26084-0100  
 UNIT "C" 33/235/30E  
 4470' - 7558'  
 interval  
 in Delaware MTR GROUP  
 STP TRACKED

[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

(894psi max)  
 Spud 3/89  
 2 2 1/8" ?  
 1 AOR well  
 1 Active  
 O.P.A.

[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.

Print or Type Name	Signature	Title	Date
e-mail Address			

MAY 23 2005

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: OIL CONSERVATION Secondary Recovery \_\_\_\_\_ Pressure Maintenance X Disposal \_\_\_\_\_ Storage \_\_\_\_\_  
Application qualifies for administrative approval? X Yes \_\_\_\_\_ No

II. OPERATOR: Bass Enterprises Production Co.

ADDRESS: P. O. Box 2760 Midland TX 79702

CONTACT PARTY: Cindi Goodman PHONE: (432)683-2277

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

IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes X 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 geological data on the injection zone including appropriate lithologic detail, geological 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 source of drinking water.

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

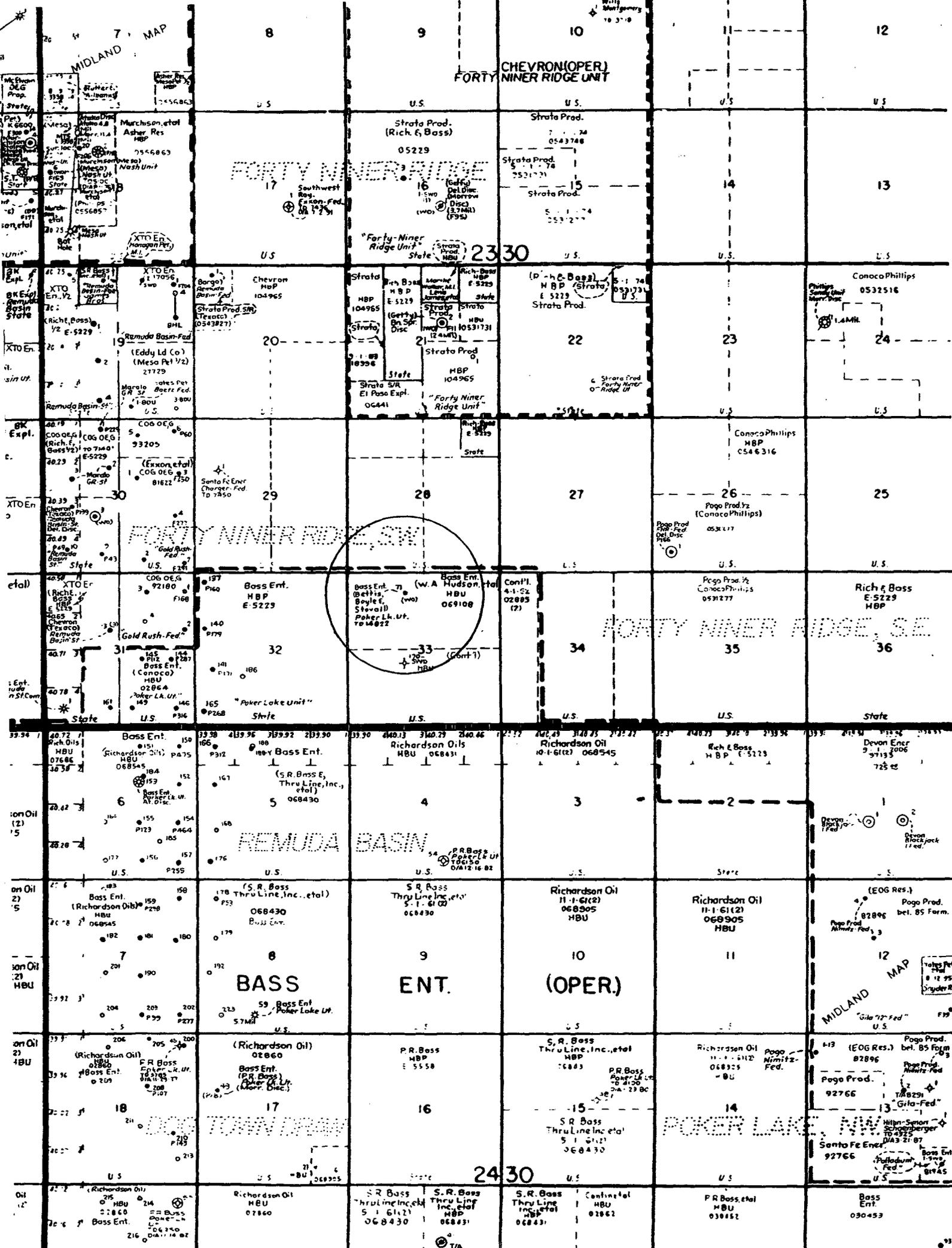
XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Cindi Goodman TITLE: Production Clerk

SIGNATURE: Cindi Goodman DATE: 02/16/2005

E-MAIL ADDRESS: cdgoodman@basspet.com

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



CHEVRON (OPER)  
NINER RIDGE UNIT

FORTY NINER RIDGE

FORTY NINER RIDGE, SW

FORTY NINER RIDGE, SE

REMUDA BASIN

BASS

ENT.

(OPER.)

DOG TOWN DRAIN

POKER LAKE

MIDLAND MAP  
"Gila 72 Fed"

24 30

Notes Pert. to 12 95 Snyder Res.

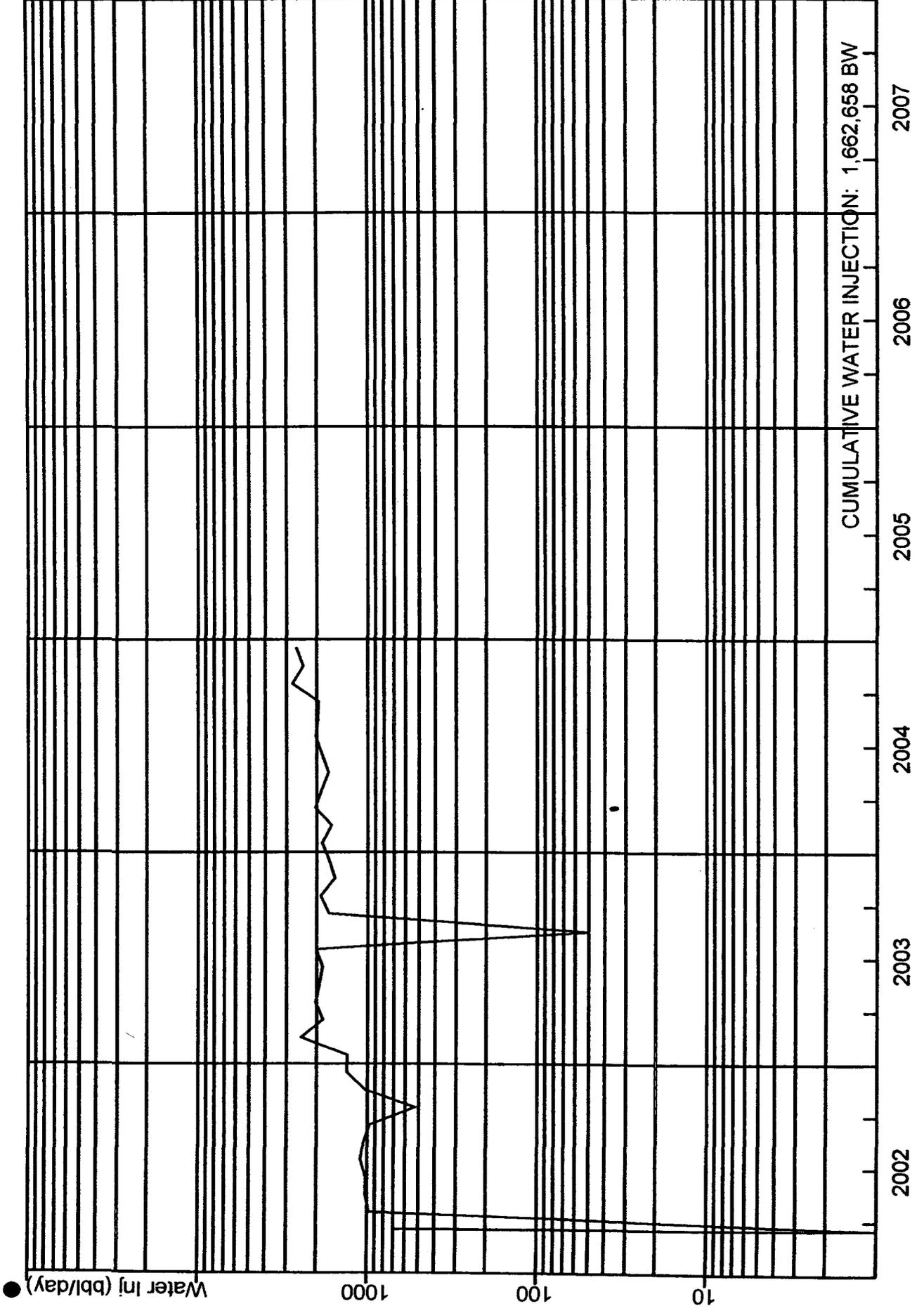
**INFORMATION ON OFFSET INJECTION WELL:**

(requested by Mr. William V. Jones)

The Bass operated Poker Lake Unit #170 SWD (PLU #170) resides in the south half of the same section, section 33, as the proposed injection well, the Bass operated PLU #71A. The PLU #170 was originally permitted to dispose of produced waters into the Delaware from 4,227' to 6,760'. The PLU #170 began disposing of produced waters on March 12, 2002 injecting at the rate of approximately 700 BWPD. The disposal volumes handled by the PLU #170 steadily increased over the next 2.75 years to the current rate of approximately 2,800 BWPD. Cumulatively, the PLU #170 has disposed of 1.66 million barrels of produced waters. The wells surface injection pressure has risen, as have the volumes handled, to the permitted pressure of 846 psi where it has fluctuated for the last 3 months. It is very apparent that this well will not be able to handle both the current produced volumes as well as the expected volumes from our ongoing development program. It is for this reason that Bass requests authority to convert the PLU #71A to disposal as soon as possible.

Oper: BEPCO  
County: EDDY  
Major Phase: Oil

Case Name: 5000304/POKER LAKE UNIT/170/DEL  
Field: NASH DRAW (DELAWARE)  
Reservoir: DELAWARE



CUMULATIVE WATER INJECTION: 1,662,658 BW

III. Well Data

A. 1) Lease name: Poker Lake Unit  
 Well #: #71-A  
 Section: 33C  
 Township: 23S  
 Range: 30E  
 Footage: 660' FNL & 1980' FWL

2) Casing Info.

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
20" 94#	618'	1,800	26"	Surface	Circ. w/ 1"
13-3/8" 68 & 72#	3,753'	3,000	17-1/2"	Surface	Circ. 400sx
5-1/2" 15.5 K-55 & 17# L80	7,880'	2,100	7-7/8"	3,212'	Temp. Surv.

3) Tubing to be used (size, lining material, setting depth):  
 2-7/8" 6.5# J-55 Seal tile PVC or similar @ 4440' if all proposed perforations are utilized.

4) Name, model, and depth of packer to be used:  
 Baker Lok-Set packer (plasti coated ID & nickel coated OD) @ 4440' if all proposed perforations are utilized.

B. 1) Name of the injection formation and, if applicable, the field or pool name:  
 Nash Draw (Delaware).

2) The injection interval and whether it is perforated or open hole:  
 The well is temporarily abandoned with a CIBP set at 7,300' & 37' of cement. Perforations exist below the CIBP at 7,335' to 40' & 7,550' to 58'. The plan will be to drill out the CIBP and perforate additional zones at 4470-6737' until sufficient capacity is achieved.

3) State if the well was drilled for injection or, if not, the original purpose of the well:  
 The captioned well was drilled as a producer. The well was perforated from 7,335-40' & 7550-58', fracture stimulated, and production tested at non-economic rates. Currently, Bass seeks to convert the well to disposal purposes.

4) Give the depths of any other perforated intervals and detail on the sacks of cement or BP's used to seal off such perforations:  
 The current perforation are from 7335-40' & 7550-58'. A CIBP is set at 7300' with 37' of cement.

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:  
 T/Wolfcamp: -7545, T/Atoka: -9830, T/Morrow Lime: -10440.

C-108 DATA

VII. 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.

Well Name	No.	API	Operator	Type	Location	Surface Casing	Intermediate Casing	Production Casing	Tubing	Spud Date	Comp Date	TD	Perforations	Stimulation
Poker Lake Unit	71A	300152608401	BEPCO	Producer	660' FWL & 1980'	20" @ 605' c/1850sx & 1" @ 13-3/8" @ 3740' c/2500sx, cts	5-1/2" @ 7880', c/2100sx	7116'	7880'	8/17/2001	8/17/2001	7880'	7335'-40'	65,000g & 277,000# sand
Poker Lake Unit	170J	300153174400	BEPCO	SWD	2180' FSL & 1980' FWL, S33, T235-R	8-5/8" @ 788' c/331sx	5-1/2" @ 7890' c/1715 sx	4115'	7890'	4/12/2002	4/12/2002	7890'	4440'-6760'	1 <sup>st</sup> stimulation for gross interval perfed: 12500 gals 15% NEEF HCl w/additives

VIII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected: 3,000 BWPD  
/whether the system is open or closed: closed
2. Proposed average and maximum injection pressure: 800psi average, 1500psi maximum
3. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: water will be produced from same field & reservoir, the Nash Draw (Delaware)
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: water will be produced from same field & reservoir, the Nash Draw (Delaware)
5. If injection is for disposal purposes into a zone not productive of oil & gas or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water: n/a

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 TDS 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:

Lithologic Detail: Sand, Shale, Lime Sequences  
Geological Name: Delaware Mountain Group  
Thickness: 3902'  
Depth: 3734-7718'

The Rusler Formation is a known source of fresh water throughout this geographic area. Average depth of Rusler is 200-400'. No sources of fresh water are known to exist below the proposed disposal zone.

IX. Describe the proposed stimulation program, if any:

Each of the zones will be perforated and acidized with approximately 50 gallons 7-12% NEEF HCl per foot.

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

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.  
No known fresh water wells within one mile of proposed well.

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 hydrology connection between the disposal zone and any underground sources of drinking water.

Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults, or other hydrologic connection between the disposal zone and any underground source of drinking water.

# PRECISION PRESSURE DATA, INC.

## TEMPERATURE SURVEY REPORT

Company BASS ENTERPRISES Lease POKER LAKE UNIT Well # 71A  
Field \_\_\_\_\_ County EDDY State NEW MEXICO  
Survey Date 7/29/01 Time 07:00 Company Rep. STAN ATNIPP

Top of Cement 3212

Total Depth

5790 =

D.V. TOOL  
DEPTH

Zero @ G. L.

Plug Down @ 7/28/01 @ 14:00 +/-

Casing Size 5.5

Hole Size 7.875

Sacks of Cement 1350

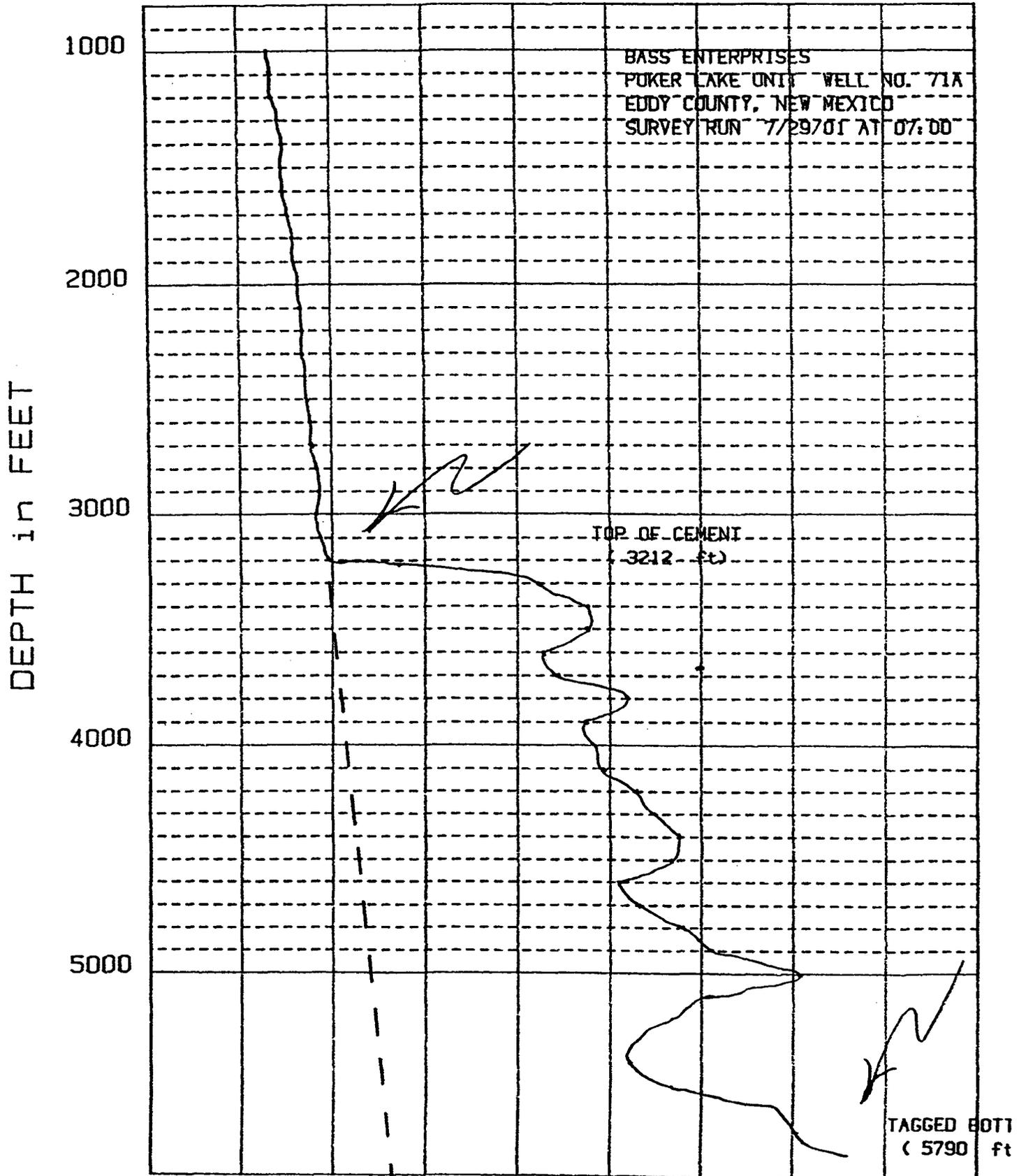
Ran By P. B.

Calculated By J. B.

# TEMPERATURE SURVEY REPORT

TEMPERATURE in DEGREES F

70 80 90 100 110 120 130 140 150 160



LEASE: PO...R LAKE UNIT

WELL #: 71-A

FIELD: NASH DRAW

LOCATION: SL: 660' FNL & 1980' FWL, SEC 33, T23S, R30E

BHL: 710' FNL & 2030' FWL, SEC 33, T23S, R30E

COUNTY: EDDY ST:NM

API: 30-015-26084

**SURFACE CASING**

SIZE: 20"  
WT: 94#  
SET @: 618'  
SX CMT: 1650  
CIRC: YES  
TOC: SURF  
HOLE SIZE: 26" 0-618'

**INTERMEDIATE CASING**

SIZE: 13-3/8"  
WT: 68 & 72#  
SET @: 3753'  
SX CMT: 3000  
CIRC: YES  
TOC: SURF  
HOLE SIZE: 17-1/2" 618-3753'

**PRODUCTION CASING**

SIZE: 9-5/8" 0-6213' POH 6/6/90  
WT: 47 & 53# 6209  
SET @: 11,145' 6390  
SX CMT: 2100  
CIRC: \_\_\_\_\_  
TOC: \_\_\_\_\_  
HOLE SIZE: 12-1/4" 3753-11,145'

**LINER**

SIZE: 5-1/2" 7900  
WT: 23# 8100  
SET @: 14,822'  
SX CMT: 300  
CIRC: NO  
TOC: 10,952'  
HOLE SIZE: 8-1/2" 11,145-14,822'

**SIDE TRACK**

SIZE: 5-1/2" 10,952  
WT: 15.5 & 17# 11,050  
SET @: 7880' 11,200  
SX CMT: 1100 13,100  
CIRC: NO 13,150  
TOC: 3212' (TS)  
HOLE SIZE: 7-7/8" 5998-7880'

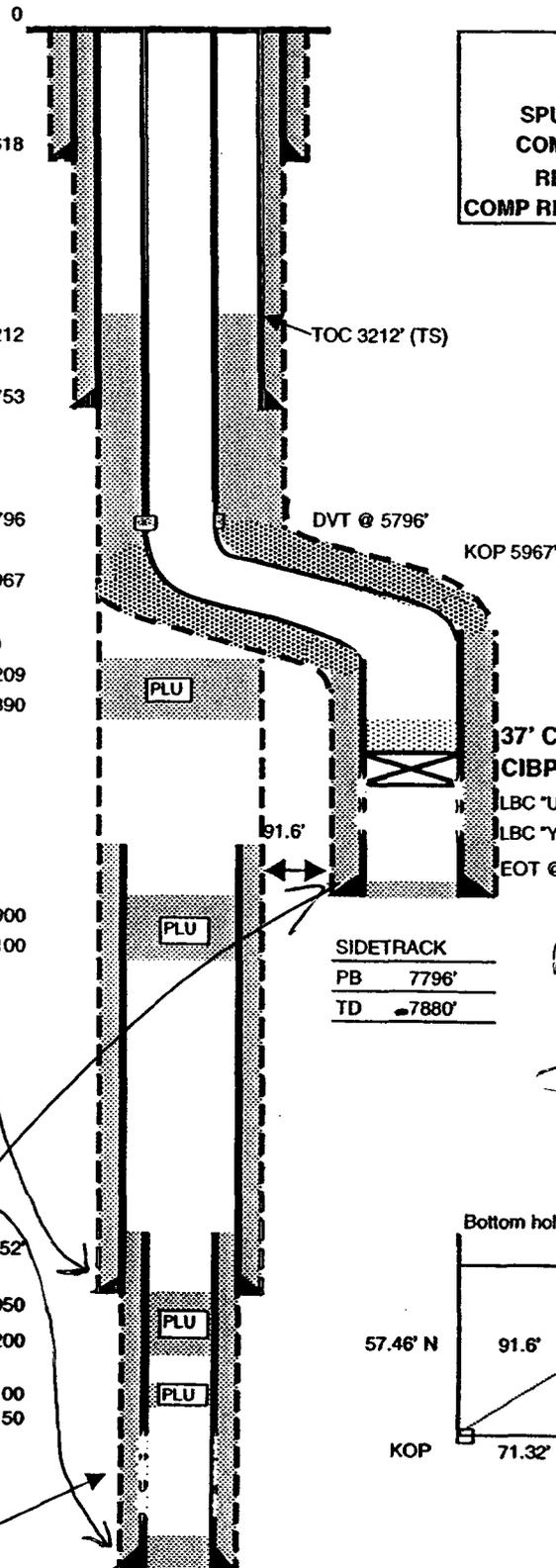
PERFS 13202-14266'

13202-206, NO TREAT

13317-332, A/3kg Mod 202

14,516-522, 471-500', 341-359', no treat

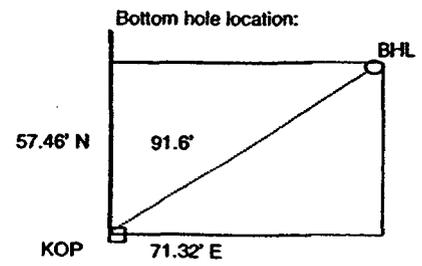
14,226', A/18.6 kg 7-1/2'



KB:	3364'
GL:	3349'
SPUD DATE:	3/25/1989
COMP DATE:	05/90 P&A
RE-ENTRY:	7/10/2001
COMP RE-ENTRY:	7/22/2001

SIDETRACK	
PB	7796'
TD	7880'

*NOT a directional well  
Just side track*



VERTICAL  
PBD: 14,779'  
TD: 14,822'

Updated: \_\_\_\_\_  
Author: KRA  
Engr: MLL

LEASE: **POKER LAKE UN**

WELL #: **71-A S -TRACK**

FIELD: **NASH DRAW**

LOCATION: **SL: 660' FNL & 1980' FWL, SEC 33, T23S, R30E**

**BHL: 710' FNL & 2030' FWL, SEC 33, T23S, R30E**

COUNTY: **EDDY**

**ST NM**

API: **30-015-26084**

**\*\* PROPOSED \*\***

**SURFACE CASING**

SIZE: 20"  
 WT: 94#  
 SET @: 618'  
 SX CMT: 1650  
 CIRC: YES  
 TOC: SURF  
 HOLE SIZE: 26" 0-618'

**INTERMEDIATE CASING**

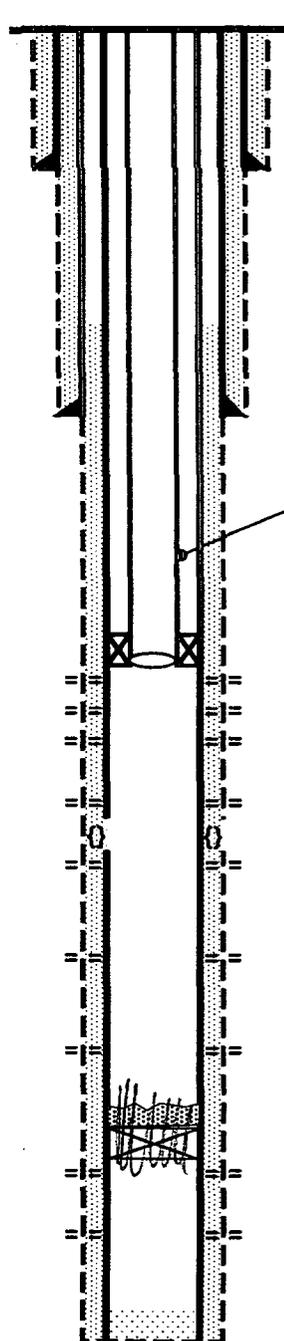
SIZE: 13-3/8"  
 WT: 68#  
 WT: 72#  
 SET @: 3753'  
 SX CMT: 3000  
 CIRC: YES  
 TOC: SURF  
 HOLE SIZE: 17-1/2" 618-3753'

**PRODUCTION CASING**

**SIDE TRACK**

SIZE: 5-1/2"  
 WT: 15.5#  
 WT: 17#  
 SET @: 7880'  
 SX CMT: 1100  
 CIRC: NO  
 TOC: 3212' TS  
 HOLE SIZE: 7-7/8" 5998-7880'

KB: 3364'  
 GL: 3349'  
 SPUD DATE: 3/25/1989  
 COMP DATE: 05/90 P&A  
 RE-ENTRY: 7/10/2001  
 COMP RE-ENTRY: 7/22/2001



15' GL  
 0' KB  
 618' 20' CASING  
 3212' TOC (TS)  
 3753' 13-3/8" CASING  
 4440' Baker Nickel Coated Lok-Set Pkr  
 4470' Injection interval 4470-4488 (72 holes)  
 4512' Injection interval 4512-4536 (96 holes)  
 4624' Injection interval 4624-4646 (88 holes)  
 4746' Injection interval 4746-4770 (96 holes)  
 4950' Injection interval 4950-4970 (80 holes)  
 5796' DVT  
 5820' Injection interval 5820-5850 (120 holes)  
 5967' KOP F/SIDE TRACK  
 6480' Injection interval 6480-6500 (80 holes)  
 6710' Injection interval 6710-6737 (108 holes)  
 7263' Dump bailed cement (tagged)  
 7300' CIBP (set 9/18/03)  
 7335' PERF 7335-40' (5 HOLES) LBC "U" SAND  
 7550' PERF 7550-58' (16 HOLES) LBC "Y" SAND

**SIDETRACK**  
 PBTD: 7300'  
 TD: 7880'

Updated: 4/13/2004  
 Author: KRA  
 Engr: MLL

**EDDY COUNTY, NEW MEXICO – NASH DRAW (DELAWARE) FIELD  
POKER LAKE UNIT #71A – API #30-015-26084**

**BASS ENTERPRISES PRODUCTION COMPANY  
CASING AND CEMENTING REPORT**

WELL POKER LAKE UNIT #71A DATE: 7/28/01

DRILLER TD: 7880 LOG TD: 7882 HOLESIZE: 12-1/4" 17-7/8" T.O.L.: —

SHOE: 7880 FC: 7789 DOM/SHORT JT.: 6355 DV TOOL: 5790

RKB ELEV: 3362.7 GROUND ELEV: 3349.3 RKB TO BHF: 13.4 RKB TO FIRST CASING COLLAR 33.31

GOVERNMENT NOTIFICATIONS (WHOM & WHEN): Stan Atripp notified Duncan w/BLM @ 2:00 AM on 7/27/01.

**CASING STRING DESCRIPTION**

JOINTS	FOOTAGE	SIZE-WEIGHT-GRADE-THREAD	INTERVAL	
36	1524	5-1/2", 17#, L80, LTC	6356'	7880'
147	6366	5-1/2", 15.5#, K55, LTC	13.00'	6356'

CENTRALIZERS: NO. 14 TYPE: Bow Spring DEPTHS: 6967', 6882', 6794', 6710', 6623', 6052', 5965', 5879', 5792', 5780', 5746', 5700', 5660', 5530'

TURBO-CENTRALIZERS: NO. 58 TYPE: Latch 'B' DEPTHS: 2 per il /7050-7880 & 6222-6550'

SCRATCHERS: NO. — TYPE — DEPTHS —

SEAL UNITS: NO. 3 TYPE Slip-on 275E DEPTHS: 6976', 7061', 7202'

**STAGE NO. 1 CEMENT DESCRIPTION CEMENT COMPANY: BJ Services**

	SACKS/ BBLs	DESCRIPTION	WEIGHT (ppg)	YIELD (cf/sx)	INTERVAL COVERED USING 20% EXCESS FROM HOLE SIZE CALIPER	
PREFLUSH	50 bbls	FW	8.4			
LEAD	12 sx	Surebond				
	50 bbls	FW	8.4			
TAIL	650 sx	Class C Modified + 0.4% FL25 + 0.4% FL 52 + 0.2% CD32 + 2% salt	14.0	1.35		7880'

**CEMENT TEST DATA: LEAD SLURRY TAIL SLURRY**

	PUMP TIME	FLUID LOSS (ccs)	COMP. STRENGTH		PUMP TIME	FLUID LOSS (ccs)	COMP. STRENGTH	
			12 HOUR	24 HOUR			12 HOUR	24 HOUR
PILOT TEST	4:01	112	811	1655				
FIELD BLEND	4:29	104	320	1208				

PIPE MOVEMENT (RECIP/ROT) None

NUMBER OF PLUGS: 1 DISPLACEMENT FLUID: VOL 124.5 bbls TYPE FW Mud CIRC RATE 6 BPM

CIRCULATING PRESSURE BEFORE CEMENTING 400 psi FINAL CIRCULATING PRESSURE 520 psi DID PLUG BUMP? Yes

FINAL PRESSURE ON PLUG 1500 psi @ 7:30 (am/pm) on 7/22/01 (date) FLOATS HELD? Yes

RETURNS WHILE CEMENTING Full

CEMENT RETURNS TO SURFACE/DVT: — BBLs 90 SACKS ESTIMATED T.O.C. IN ANNULUS 5790'

**STAGE NO. 2 CEMENT DESCRIPTION CEMENT COMPANY BJ Services**

	SACKS/ BBLs	DESCRIPTION	WEIGHT (ppg)	YIELD (cf/sx)	INTERVAL COVERED USING 25% EXCESS FROM HOLE SIZE CALIPER	
PREFLUSH	50 bbls	FW				
LEAD	1350 sx	50/50 Poz C + 10% gel + 5% salt + 1/4# celloflake	12.1	2.24	3450'	5700'
TAIL	100 sx	Class C	14.8	1.32	5700'	5790'

**EDDY COUNTY, NEW MEXICO – NASH DRAW (DELAWARE) FIELD  
POKER LAKE UNIT #71A – API #30-015-26084**

	LEAD SLURRY				TAIL SLURRY			
	PUMP TIME	FLUID LOSS (ccs)	COMP. STRENGTH		PUMP TIME	FLUID LOSS (ccs)	COMP. STRENGTH	
			12 HOUR	24 HOUR			12 HOUR	24 HOUR
PILOT TEST	4:22	917	263	324	2:47		2050	2508
FIELD BLEND	4:17		163	309	2:36		1463	2550

NUMBER OF PLUGS: 1 DISPLACEMENT FLUID: VOL 138.2 bbls TYPE FW CIRC. RATE 2 BPM  
 CIRCULATING PRESSURE BEFORE CEMENTING 0 psi FINAL CIRCULATING PRESSURE 930 psi DID PLUG BUMP? Yes  
 FINAL PRESSURE ON PLUG 3050 psi @ 3:30 (am/pm) on 7/28/01 (date) FLOATS HELD? Yes  
 RETURNS WHILE CEMENTING: Full  
 CEMENT RETURNS TO SURFACE/DVT: None BBLS            SACKS ESTIMATED T.O.C. IN ANNULUS 3450'

07-30-01      Ran temperature survey & found TOC @ 3212'

**DROP FROM REPORT PENDING COMPLETION OPERATIONS.**

CUMULATIVES: WATER COST \$12,465      MUD COST \$ 6,849

	DAILY	CUMULATIVE
DRILLING COST	\$ 0	\$ 307,949
EVALUATION COST	\$ 0	\$ 25,881
COMPLETION COST	\$ 750	\$ 132,906
FACILITIES COST	\$ 0	\$ 0
<b>TOTAL COST</b>	<b>\$ 750</b>	<b>\$ 466,736</b>

BASS ENTERPRISES PRODUCTION CO.

201 MAIN ST.

FORT WORTH, TEXAS 76102-3131

817/339-8400

January 10, 2005

**FEDERAL EXPRESS**

Mosaic Potash Carlsbad Inc.  
1361 Potash Mines Road  
Carlsbad, New Mexico 88220

Attn: Mr. Dan Morehouse

Re: Proposed Well in Poker Lake Unit  
Poker Lake 71A  
Eddy County, New Mexico

Dear Mr. Morehouse:

Bass Enterprises Production Co. (BEP Co.) intends to convert the above-referenced well within the Poker Lake Unit area in Eddy County, New Mexico, to a saltwater disposal well. The above-mentioned well is located at 660' FNL and 1980' FWL, Section 33, T23S-R30E.

--- Bass hereby requests a waiver of any objections Mosaic Potash may have for the conversion of the Poker Lake 71A well. In the event Mosaic Potash is agreeable to providing such waiver, please sign in the space provided and return one (1) executed original to the undersigned at your earliest convenience. Thank you very much and should you have any questions or comments or require additional information, please don't hesitate to contact the undersigned at (817) 339-7214.

Sincerely,  
BASS ENTERPRISES PRODUCTION CO.

*Forest K. Naylor*

Forest K. Naylor

FKN:mc

AGREED and ACCEPTED this 24<sup>TH</sup> day of JANUARY, 2005.

MOSAIC POTASH CARLSBAD INC.

By: *[Signature]*

Title: MINE ENGINEERING SUPERVISOR

**BASS ENTERPRISES PRODUCTION CO.**

201 MAIN ST.

FORT WORTH, TEXAS 76102-3131

817/390-8400

January 31, 2005

**FEDERAL EXPRESS**

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

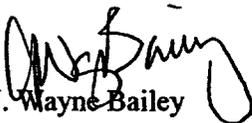
Attention: Mr. Will Jones

Re: Surface Ownership  
Poker Lake No. 71-A  
Section 33, T23S-R30E  
NE/4 NW/4  
Eddy County, New Mexico

Gentlemen:

Please reference Bass' application to convert the referenced well to a salt water disposal well. You have requested information concerning the ownership of surface rights at the well. Please be advised that public records show that the owner of the surface rights in all of Section 33 is the Bureau of Land Management – Department of Interior. Thank you very much and should you have any questions regarding this information, please don't hesitate to contact the undersigned at (817)390-8671.

Very truly yours,

  
J. Wayne Bailey

JWB:laj

cc: Kent Adams – Midland Office ✓



**BASS ENTERPRISES PRODUCTION CO.**  
6 DESTA DRIVE, SUITE 3700 (79705)  
P. O. BOX 2760  
MIDLAND, TEXAS 79702

FAX (432) 687-0329

February 16, 2005

(432) 683-2277

Re: Notice of Application for  
Authorization to Convert to SWD  
Poker Lake Unit #71A  
Eddy County, New Mexico  
File: 100-WF: PLU71A.C108

Bureau of Land Management  
Department of Interior  
620 E. Greene Street  
Carlsbad, New Mexico 88220-6292  
Attn: Mr. Craig Cranston

Gentlemen:

Enclosed please find Bass Enterprises Production Co.'s Application for Authorization to Convert for disposal purposes only into the Poker Lake Unit #71A, located in Section 33, T23S, R30E, Eddy County, New Mexico.

If additional information is required, please contact Kent Adams at the letterhead address.

Sincerely,



John Smitherman  
Division Production Manager

KAA:cdg  
Attachment

**BASS ENTERPRISES PRODUCTION CO.**  
6 DESTA DRIVE, SUITE 3700 (79705)  
P. O. BOX 2760  
MIDLAND, TEXAS 79702

FAX (432) 687-0329

July 28, 2004

(432) 683-2277

Re: Notice of Application for  
Authorization to Convert to SWD  
Poker Lake Unit #71A  
Eddy County, New Mexico  
File: 100-WF: PLU#71A.C108

Lori Wrotenberry  
Oil Conservation Division  
2040 Pacheco Street  
Santa Fe, New Mexico 87505

Dear Ms. Wrotenberry:

Enclosed please find Bass Enterprises Production Co.'s Application for Authorization to Convert for disposal purposes only into the Poker Lake Unit #71A, located in Section 33, T23S-R30E, Eddy County, New Mexico.

If additional information is required, please contact Kent Adams at the letterhead address.

Sincerely,



John R. Smitherman  
Division Production Manager

by  
KAA

JRS:cdg  
Attachment

**BASS ENTERPRISES PRODUCTION CO.**  
6 DESTA DRIVE, SUITE 3700 (79705)  
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MIDLAND, TEXAS 79702

FAX (432) 687-0329

July 28, 2004

(432) 683-2277

Re: Notice of Application for  
Authorization to Convert to SWD  
Poker Lake Unit #71A  
Eddy County, New Mexico  
File: 100-WF: PLU#71A.C108

RBM - Co  
2201 N. Palm Street  
Little Rock, Arkansas 72207

Gentlemen:

Enclosed please find Bass Enterprises Production Co.'s Application for Authorization to Convert for disposal purposes only into the Poker Lake Unit #71A, located in Section 33, T23S-R30E, Eddy County, New Mexico.

If additional information is required, please contact Kent Adams at the letterhead address.

Sincerely,



John R. Smitherman  
Division Production Manager

by  


JRS:cdg  
Attachment

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P. O. BOX 2760  
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July 28, 2004

(432) 683-2277

Re: Notice of Application for  
Authorization to Convert to SWD  
Poker Lake Unit #71A  
Eddy County, New Mexico  
File: 100-WF: PLU#71A.C108

Turnco, Inc  
P.O. Box 1240  
Graham, Texas 76450

Gentlemen:

Enclosed please find Bass Enterprises Production Co.'s Application for Authorization to Convert for disposal purposes only into the Poker Lake Unit #71A, located in Section 33, T23S-R30E, Eddy County, New Mexico.

If additional information is required, please contact Kent Adams at the letterhead address.

Sincerely,



John R. Smitherman  
Division Production Manager

by  
KAD

JRS:cdg  
Attachment

**Jones, William V**

---

**From:** CINDI D. GOODMAN [cdgoodman@basspet.com]  
**Sent:** Thursday, December 09, 2004 1:03 PM  
**To:** Jones, William V  
**Subject:** RE: Poker Lake Unit #71A

Hi Will,  
 I have just received the Affidavit of Publication on this well, I will be mailing it to you, along with well bore diagrams. W.L. Mobley is the only surface owner, which was notified by letter that was included in original application. The only operator within a 1/2 mile is Bass. The other SWD well is maxed out on pressure, and we do not have a Hall Plot on this well.  
 If there is anything else you need please contact me.  
 Thanks  
 Cindi Goodman

At 06:50 PM 11/30/2004 -0700, you wrote:

Cindi:  
 I am working on this permit application and can't find a copy of the corrected newspaper notice. Could you please send it along with a written answer to the other questions below? You can email the reply or mail or fax. See our web site for all contact information.

I apologize if you have already sent this stuff.

Regards,

Will Jones

-----Original Message-----

**From:** Jones, William V  
**Sent:** Wednesday, October 13, 2004 4:39 PM  
**To:** 'cdgoodman@basspet.com'  
**Cc:** Ezeanyim, Richard  
**Subject:** Poker Lake Unit #71A

Hello Cindi:

I am processing your SWD application and have some questions and requests. Our contact info including fax number is on the OCD web site.

- 1) Please re-run your newspaper notice with the correct NMOCD address. Send me evidence the new newspaper notice was run and the date it was run.
- 2) Please do a "before conversion" well bore diagram and send it to me.
- 3) What is the bottom hole location? Is it the same as the surface location? (This well is sidetracked)

**Jones, William V**

**From:** CINDI D. GOODMAN [cdgoodman@basspet.com]  
**Sent:** Wednesday, December 01, 2004 7:03 AM  
**To:** Jones, William V  
**Subject:** RE: Poker Lake Unit #71A

432-683-2211

Will, I have not sent this stuff to you yet, I am waiting on the newspaper notice, it takes 3-weeks, that newspaper only publishes once a week. As soon as I get it back I'll send it to you along with the answers on your questions.

Thanks  
Cindi

Received 12/13/04  
 newspaper published 11/19/04  
 12/24/04  
 12/13/04

At 06:50 PM 11/30/2004 -0700, you wrote:

Cindi:

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Regards,

Will Jones

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- 1) Please re-run your newspaper notice with the correct NMOCD address. Send me evidence the new newspaper notice was run and the date it was run.
- 2) Please do a "before conversion" well bore diagram and send it to me.
- 3) What is the bottom hole location? Is it the same as the surface location? (This well is sidetracked)
- 4) Send a list showing the surface owner and all operators within 1/2 mile.
- 5) There is another SWD well nearby in the same zone you are proposing for this well. Tell me



BASS ENTERPRISES PRODUCTION CO.

201 MAIN ST.

FORT WORTH, TEXAS 76102-3131

817/390-8400

2005 FEB 1 AM 10 01

January 31, 2005

**FEDERAL EXPRESS**

New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Attention: Mr. Will Jones

Re: Surface Ownership  
Poker Lake No. 71-A  
Section 33, T23S-R30E  
NE/4 NW/4  
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Gentlemen:

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Very truly yours,

  
J. Wayne Bailey

JWB:laj

cc: Kent Adams – Midland Office

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) **L NELSON** B. Date of Delivery **2-23-05**

C. Signature *[Signature]*

Agent  
 Addressee

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

7160 3901 9842 7739 3250

3. Service Type **CERTIFIED MAIL**

4. Restricted Delivery? (Extra Fee)  Yes

1. Article Addressed to:

**OIL CONSERVATION DIVISION  
1301 W GRAND AVENUE  
ARTESIA, NEW MEXICO 88210**

**ATTN: MR. WILL JONES**

PS Form 3811, January 2003

Domestic Return Receipt

*CDG*

052E 6E2L 2486 106E 091L

US Postal Service

**Certified  
Mail  
Receipt**

Domestic Mail Only  
No Insurance  
Coverage Provided

Postage \$

Certified Fee

Return Receipt Fee  
(Endorsement Required)

Restricted Delivery Fee  
(Endorsement Required)

**Total Postage & Fees** \$

Postmark  
Here

Sent To:

**OIL CONSERVATION DIVISION  
1301 W GRAND AVENUE  
ARTESIA, NEW MEXICO 88210**

**ATTN: MR. WILL JONES**

*PLU #71A*

*Application to  
Insert*

*2/21/05*

PS Form 3800, January 2003

US Postal Service

**Certified Mail Receipt**

2

*Original Application Sent  
to Artesia, 2/21/05.*

**Jones, William V**

**From:** Jones, William V  
**Sent:** Tuesday, February 08, 2005 10:30 AM  
**To:** 'cdgoodman@basspet.com'  
**Cc:** Ezeanyim, Richard; Arrant, Bryan  
**Subject:** RE: Poker Lake Unit #71A SWD Application

Hello Cindi:

I just got a letter from your Fort Worth office saying that the surface here is owned by the BLM. This is contrary to your previous email that W.L. Mobley is the surface owner. My supervisor reminded me again of our 30 day deadline for processing admin permits. Due to the long delay in getting all the necessary information for this permit, I am canceling it from our system.

If Bass is still interested in pursuing this SWD permit, then send in another application. The easiest way would be to copy the one you sent earlier, but also correct any errors and send in the answers to concerns expressed by myself and by Mr.. Bryan Arrant in Artesia.

The information to correct (that I can now remember) is the following:

- 1) How was the 3,450 top of cement determined? Send a copy of the bond log or temperature survey along with the application, and also send this to the Artesia office, since they do not have a copy.
- 2) Notice the BLM as the correct surface owner and specifically notice Mr.. Craig Cranston as BLM manager of the BLM Potash area.
- 3) If there is a potash lease under this well site, obtain a waiver from that Potash Leaseholder and send this waiver with the application.
- 4) Use the existing newspaper notice.
- 5) Send a 1/2 mile radius drawn on a current Midland Map of sufficient size that all owners and well details are apparent.
- 6) For the 1/2 mile notice requirement: Use previous notices to offsets as adequate, unless these are not accurate or complete. Remember, if there is unleased acreage, the mineral owner(s) must be notified. If there are multiple working interest owners with no "operator" then all these working interest owners must be notified. Remember all notices should include a complete application.
- 7) Have your engineers look at your offset injection well and include with the application a written paragraph on the history and current status of this well. How it was originally permitted, what depths and formations were permitted, how many years has it been used as an injector, how many total barrels of water were injected? What is the current injection rate and pressure? If it is now pressured up, how long has this been the case?
- 8) Send the original to Santa Fe and a copy of the complete application to the Artesia district office of the Division, attention Bryan Arrant.

I believe, if you answer these questions along with your new application, we can get it addressed very quickly.

Regards,

**Jones, William V**

---

**From:** Arrant, Bryan  
**Sent:** Monday, December 20, 2004 10:50 AM  
**To:** Jones, William V  
**Cc:** Gum, Tim; Sanchez, Daniel; 'Craig\_Cranston@nm.blm.gov'  
**Subject:** RE: Poker Lake #71 30-015-26084-01-00

Will,

This well is located on Federal lands and minerals. As you know, the production string of casing was 2 staged and the TOC was reported to be @ 3450'.

Craig Cranston is the contact person that reviews APDs in the Potash area whenever it is located on Federal minerals and he is the person whom most likely approved the casing requirements etc. for this location.

I tried to get a hold of Craig and he was not in his office. 505-887-6544

According to my map this area is just outside of the "Known Potash Leasing Area".

However it is close to the measured potash reserves (Potash Onclave).

What I would do is go ahead and have Bass obtain a waiver from the potash lease holder. I would also have Bass submit to you how they determined the TOC for the production string. This would be either a bond log or an estimated calculation of determining the TOC or a temperature survey. I cannot find any of this data.

Please have them submit this data for determining the TOC and ask them why it was not submitted as required by our rules in the 1st place.

I would also visit with Craig and see if he may have any other ideas and if they are required to submit to the BLM

regulatory approval for their end of the spectrum. When I spoke to Bass (Cindi Goodman 432-683-2277) she could not in in her files any paperwork at this time of any such data ( an intent to the BLM).

Bryan

-----Original Message-----

**From:** Jones, William V  
**Sent:** Monday, December 20, 2004 9:39 AM  
**To:** Arrant, Bryan  
**Cc:** Gum, Tim; Sanchez, Daniel  
**Subject:** Poker Lake #71 30-015-26084-01-00

Hello Bryan:

I have an application from Bass to put water into this existing well into the Delaware Mountain Group from 4,232 to 7,558. This well is deviated 92 feet from surface to TD to the Northeast. The BHL is 710 fnl and 2030 fwl Section 33, T23S R30E.

Bass already has an SWD well in this section and in this same interval, but they say it is maxed out on pressure. They do not have a Hall plot on the well and don't seem to know what this is....which is disturbing to me. They have not shared any profile work with me also, showing where the water is going.

From the potash map I have, it looks like this proposed injection well is in the defined potash

area but near the edge. The existing well may be out of the potash area but barely.

Does your map show this proposed injection location to be in the Potash area?

Do you have any thoughts on this proposal to inject?

Should I get them to notice the potash people, if the wellbore penetrates the potash?

Thanks very much,

William V. Jones

Engineering Bureau

Oil Conservation Division

Santa Fe

7160 3901 9842 6227 4496

US Postal Service <b>Certified Mail Receipt</b> <i>Domestic Mail Only          No Insurance          Coverage Provided</i>	Postage	\$	Postmark Here
	Certified Fee		
	Return Receipt Fee (Endorsement Required)		
	Restricted Delivery Fee (Endorsement Required)		
	<b>Total Postage &amp; Fees</b>	\$	

Sent To:

**RBM - CO**  
**2201 N. PALM STREET**  
**LITTLE ROCK, ARKANSAS 72207**

*C-108 PLU # 71*  
*Application to*  
*Convert SWD*

*9/7/04*

PS Form 3800, January 2003 US Postal Service **Certified Mail Receipt**  
 2

7160 3901 9842 6227 4489

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	Certified Fee		
	Return Receipt Fee (Endorsement Required)		
	Restricted Delivery Fee (Endorsement Required)		
	<b>Total Postage &amp; Fees</b>	\$	

Sent To:

**W.L. MOBLEY**  
**851 CANAL**  
**CARLSBAD, NEW MEXICO 88220**

*C-108*  
*Application to*  
*Convert SWD*  
*PLU # 71*

*9-7-04*

PS Form 3800, January 2003 US Postal Service **Certified Mail Receipt**  
 2

7160 3901 9842 6227 4502

US Postal Service <b>Certified Mail Receipt</b> <i>Domestic Mail Only          No Insurance          Coverage Provided</i>	Postage	\$	Postmark Here
	Certified Fee		
	Return Receipt Fee (Endorsement Required)		
	Restricted Delivery Fee (Endorsement Required)		
	<b>Total Postage &amp; Fees</b>	\$	

Sent To:

**TURNCO, INC**  
**P.O. BOX 1240**  
**GRANAM, TEXAS 76450**

*C-108*  
*Application to*  
*Convert SWD*  
*PLU # 71*

*9/7/04*

PS Form 3800, January 2003 US Postal Service **Certified Mail Receipt**  
 2