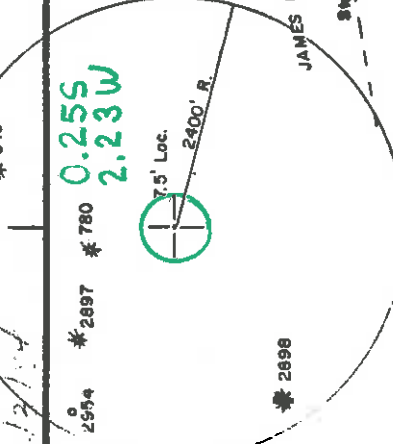
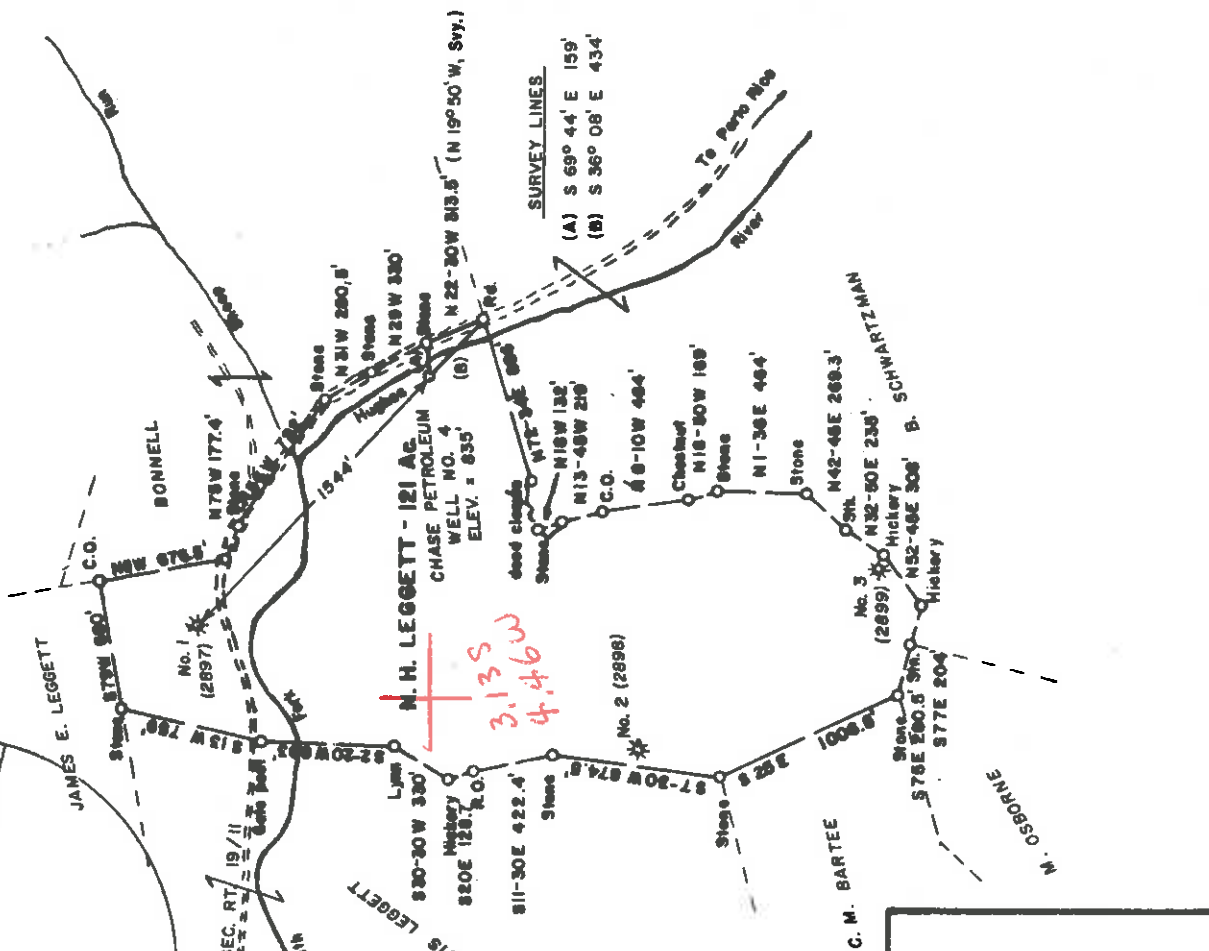


11,750' LATITUDE : 39-12-30
 80 45' LONGITUDE : 80° 47' 30"

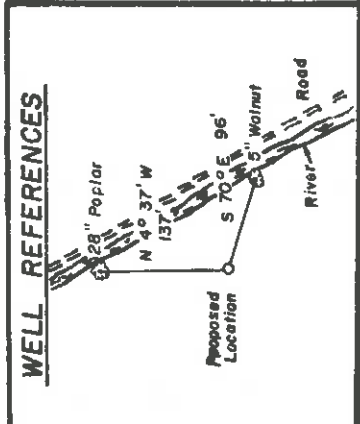
39.15



2554 * 2897 * 780 * 2698
 CODE CARD ✓ PLOT
 SURVEY NORTH

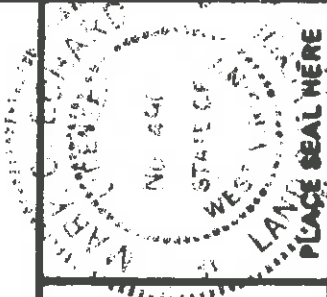


3.135
 4.46W



FILE NO. M 7-54
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Jct. Rds. 700' N W
 of Location Elev. = 841'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Mark C. Echard
 R.P.E. L.L.S. 490



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE OCTOBER 25, 1984
 OPERATOR'S WELL NO. FOUR
 API WELL NO. 47-017-3387
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS.") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 835 WATER SHED SOUTH FORK OF HUGHES RIVER
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 2A 058 Holbrook 15' NE3
 SURFACE OWNER N.H. LEGGETT HEIRS ACREAGE 121
 OIL & GAS ROYALTY OWNER N.H. LEGGETT HEIRS LEASE ACREAGE 121

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5900'
 WELL OPERATOR CHASE PETROLEUM CORP. DESIGNATED AGENT MR. ALTON SKINNER
 ADDRESS BOX 297 162 ADDRESS BOX 297 GLENVILLE, W.V. 26351
 GLENVILLE, W.V. 26351

6-6 Straight Fork-Blinestone Creek (133)
 DEC 25 1984

TRASCOR I

RECEIVED

IV-35
(Rev 8-81)

FEB 27 1985



OIL & GAS DIVISION State of West Virginia

DEPT. OF MINES
Department of Mines
Oil and Gas Division

Date February 25, 1985
Operator's Well No. Hedrick Leggett #4
Farm Roy Leggett
API No. 47 - 017 - 3387

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 835 Watershed South Fork Hughes River
District: Southwest County Doddridge Quadrangle Oxford 7.5

COMPANY Chase Petroleum, Inc.

ADDRESS P.O. Drawer 369, Glenville, WV 26351

DESIGNATED AGENT Alton Skinner

ADDRESS P.O. Drawer 369, Glenville, WV 26351

SURFACE OWNER Roy Leggett

ADDRESS West Union, WV 26452

MINERAL RIGHTS OWNER Roy Leggett, et al

ADDRESS West Union, WV 26452

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED 12/03/84

DRILLING COMMENCED 12/18/84

DRILLING COMPLETED 12/30/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander (Devonian)

Depth of completed well 5222 feet Rotary X / Cable Tools Depth 5900 feet

Water strata depth: Fresh 23' & 50' feet; Salt ^{None} recorded feet

Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Alexander, Balltown

Gas: Initial open flow 481 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 870 Mcf/d Final open flow show Bbl/d

Time of open flow between initial and final tests n/a hours

Static rock pressure 1875 psig (surface measurement) after 4 hours shut in

(If applicable due to multiple completion--)

Second producing formation

Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

4814-4846
3341-3496

MAR 11 1985 (Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fraced Alexander 4814-4846, 12 holes, 538 Bbls Water, 40,000# 20/40, 10,000# 80/100
 Fraced Balltown 3341-3496, 10 holes, 557 Bbls Water, 25,000# 20/40, 10,000# 80/100

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Topsotl			0	31	
Sand, Shale, Red Rock			31	545	2-1/2" stream H2O @ 25'
Sand, Shale			545	1578	1/2" stream H2O @ 50'
Big Lime			1578	1632	
Sand, Shale			1632	1636	
Injun			1636	1660	
Sand, Shale			1660	1692	
Squaw			1692	1714	
Sand, Shale			1714	1820	70/10-1" F.M. W/H2O @ 1730'
Weir			1820	2000	
Sand, Shale			2000	2070	
Berea			2070	2074	
Sand, Shale			2074	2240	54/10-1" F.M. W/H2O @ 2233'
Fourth Sand			2240	2306	
Sand, Shale			2306	2570	
Fifth Sand			2570	2580	
Sand, Shale			2580	2930	50/10-2" O.F. W/H2O @ 2805'
Speechley			2930	2990	
Sand, Shale			2990	3340	60/10-2" O.F. W/H2O @ 3304'
Balltown			3340	3496	
Sand, Shale			3496	4110	80/10-2" O.F. W/H2O @ 3812'
Riley			4110	4380	50/10-2" O.F. W/H2O @ 4355'
Sand, Shale			4380	4530	
Benson			4530	4534	
Sand, Shale			4534	4800	
Alexander			4800	4860	
Sand, Shale			4860	5222	130/10-2" O.F. W/H2O @ 4805'
			4860		TD

(Attach separate sheets as necessary)

Chase Petroleum, Inc.
 Well Operator

By: Arthur Skinner
 Date: February 25, 1985

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic
 detailed geological record of all formations, including
 the thickness of the formations of the well."

RECEIVED
 NOV 11 1984

1) Date: November 5, 19 84
 2) Operator's Well No. Hedrick Leggett #4
 3) API Well No. 47 - 017 - 3387
 State County Permit



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIVISION

4) WELL TYPE: A Oil Gas
 B (if "Gas", Production / Underground storage / Deep / Shallow
 5) LOCATION: Elevation: 835 / Watershed: South Fork of Hughes River
 District: Southwest / County: Doddridge / Quadrangle: Oxford 7.5
 6) WELL OPERATOR: Chase Petroleum, Inc. 9500 / DESIGNATED AGENT: Alton Skinner
 Address: P.O. Drawer 369 / Address: P.O. Drawer 369
 Glenville, WV 26351 / Glenville, WV 26351
 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Unknown
 Name: Mike Underwood
 Address: Route 2 - Box 114
 Salem, WV 26426

10) PROPOSED WELL WORK: Drill / deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION: Alexander (Devonian)
 12) Estimated depth of completed well, _____ feet
 13) Approximate true depths: Fresh, _____ feet; salt, _____ feet
 14) Approximate coal seam depths: _____ feet; salt, _____ feet
 Is coal being mined in the area? Yes No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well		
Conductor							
Fresh water							
Coal							
Intermediate	8-5/8		20#	400	400	CTS	Sizes by rule 15.05
Production	4-1/2		10.5#	5940	5940	725 Sks	Depths set
Tubing							
Liners							
							Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3387 Date December 3, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires December 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
35	MW	MW	MW	3853

Margaret J. Adams
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

