

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

MAR 24 2004

OCD-ARTESIA

Form C-101
Revised June 10, 2003

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

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

¹ Operator Name and Address HEC Petroleum, Inc. (Formerly Hallwood, c/o Pure Resources, L. P.) 500 W. Illinois Midland, Texas 79701		² OGRID Number 9812
		³ API Number 30 - 015 - 33320
³ Property Code 4876	⁵ Property Name Catclaw Draw Unit	⁶ Well No. 18

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	21S	25E		1,310	North	1,310	West	Eddy

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County

⁹ Proposed Pool 1

Catclaw Draw; Morrow (Prorated Gas)

¹⁰ Proposed Pool 2

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3,366'
¹⁶ Multiple No	¹⁷ Proposed Depth 10,600'	¹⁸ Formation Morrow	¹⁹ Contractor	²⁰ Spud Date 04/15/2004

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/2"	13-3/8"	48# H-40, STC	350'	325 sx Cl "C"	Surface
12-1/4"	8-5/8"	28# J-55, STC	1,750'	550 sx Cl "C"	Surface
7-7/8"	5-1/2"	17# N-80, LTC	10,600'	930 sx Cl "H"	2,300' or higher

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

HEC Petroleum, Inc. (Formerly Hallwood, c/o Pure Resources, L. P.) plans to drill the Catclaw Draw Unit Well No. 18 and complete in the Morrow formation or Catclaw Draw; Morrow (Prorated Gas) Pool.

1. Drill 25" hole to 40'. Run & set 40' of 20" conductor pipe & cmt. to surface w/Redi-mix.
2. Drill 17-1/2" hole to 350'. Run & set 350' of 13-3/8" 48# H-40, STC csg. Cmt. w/225 sx Cl "C" cmt., tail in w/100 sx Cl "C" cmt. Circ. cmt. to surface.
3. Drill 12 1/4" hole to 1,750'. Run & set 1,750' of 8-5/8" 28# J-55, STC csg. Cmt. w/450 sx Cl "C" cmt., tail in w/100 sx Cl "C" cmt. Circ. cmt. to surface. A fresh water drilling fluid will be utilized down through the Capitan Reef interval & until Intermediate csg. is set.
4. Drill 7-7/8" hole to TD @ 10,600'. Run & set 10,600' of 5 1/2" 17# N-80, LTC csg. Cmt. w/565 sx Cl "H" cmt., tail in w/365 sx Cl "H" cmt. TOC of cmt. to be 2300' or higher behind 5 1/2" csg. (See attached BOP Schematics)

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Alan W. Bohling*

Printed name: Alan W. Bohling

Title: Regulatory Agent

E-mail Address: abohling@PureResources.com

Date: 02/26/2004

Phone: (432) 498-8662

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

MAR 25 2004

Expiration Date:

MAR 25 2005

Conditions of Approval:

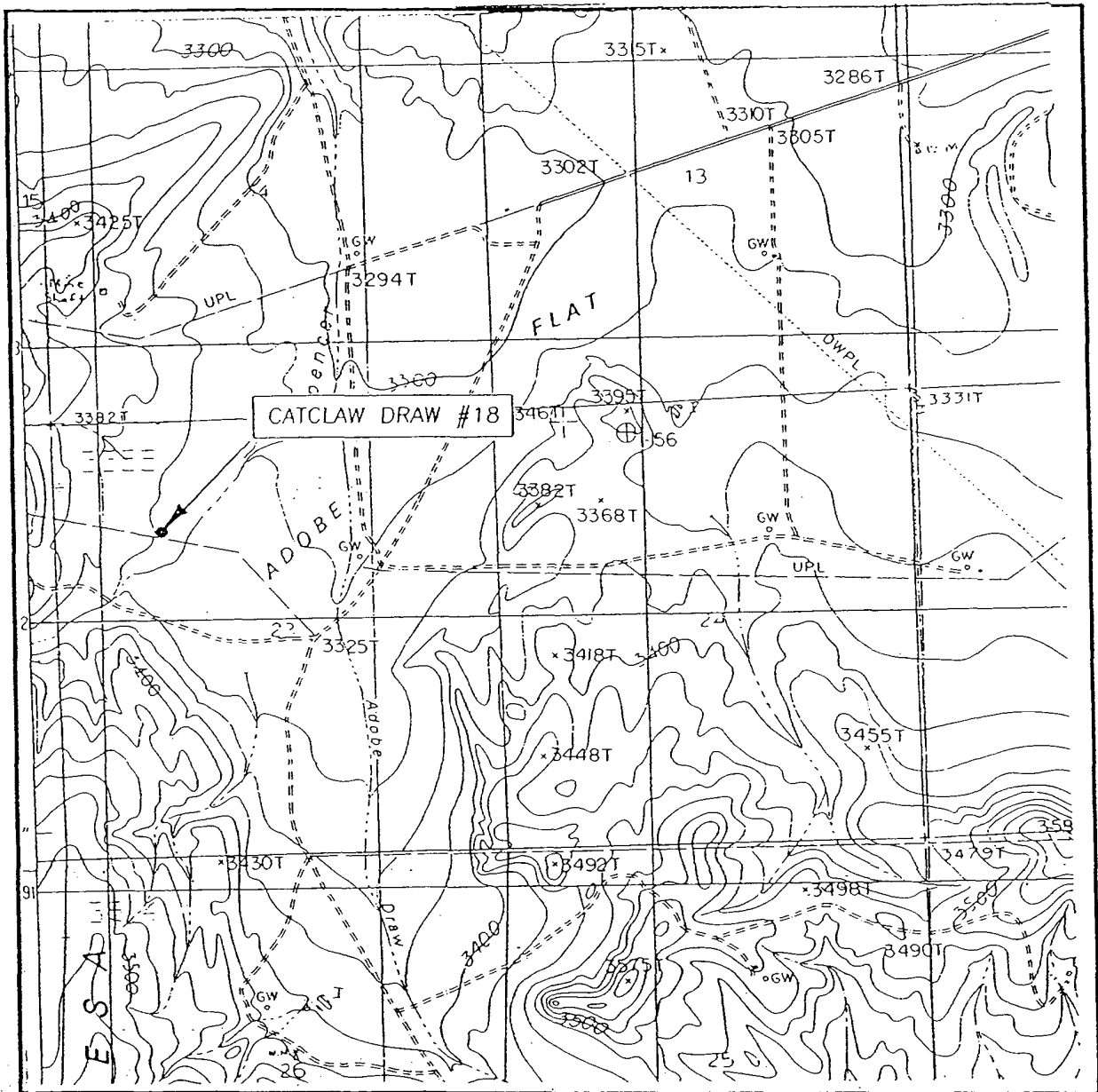
Attached ☐

HEC Petroleum, Inc.
(Formerly Hallwood, c/o Pure Resources, L. P.)

Catchlaw Draw Unit Well No. 18
1301' FNL & 1310' FWL
UL D, Section 23, T-21-S, R-25-E
Eddy County, New Mexico

There is no known presence of H₂S in the area of this well. Should an indication of H₂S occur during the drilling of this well, necessary precautions will be taken to insure the safety of all workers and personnel on the location. Warning flags will be posted as to the safety of the area.

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 20'
CARLSBAD WEST, N.M.

SEC. 23 TWP. 21-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1310' FNL & 1310' FWL

ELEVATION 3366'

OPERATOR HEC Petroleum, Inc. (Formerly

LEASE CATCLAW DRAW Hallwood)

U.S.G.S. TOPOGRAPHIC MAP
CARLSBAD WEST, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

DISTRICT I
P.O. Box 1960, Hobbs, NM 88241-1960

DISTRICT II
P.O. Drawer D0, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 74320	Pool Name Catclaw Draw; Morrow (Prorated Gas)
Property Code 4876	Property Name Catclaw Draw Unit	Well Number 18
OGRID No. 9812	Operator Name HEC Petroleum, Inc. (Formerly Hallwood)	Elevation 3366'

Surface Location

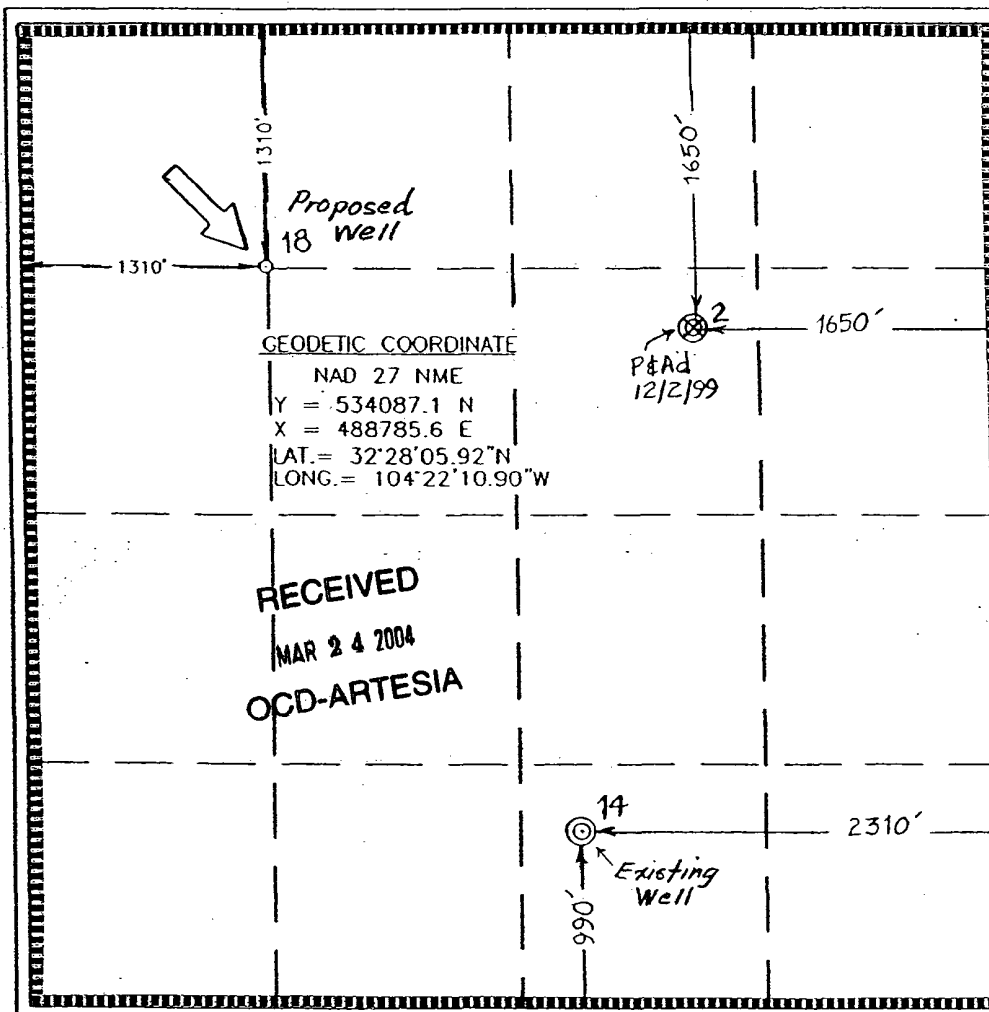
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	21-S	25-E		1310	NORTH	1310	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			R-4081 December 17, 1970-State & Federal Unit

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information
contained herein is true and complete to the
best of my knowledge and belief.

Alan W. Bohling
Signature

Alan W. Bohling
Printed Name

Regulatory Analyst
Title

February 10, 2004
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown
on this plat was plotted from field notes of
actual surveys made by me or under my
supervision and that the same is true and
correct to the best of my belief.

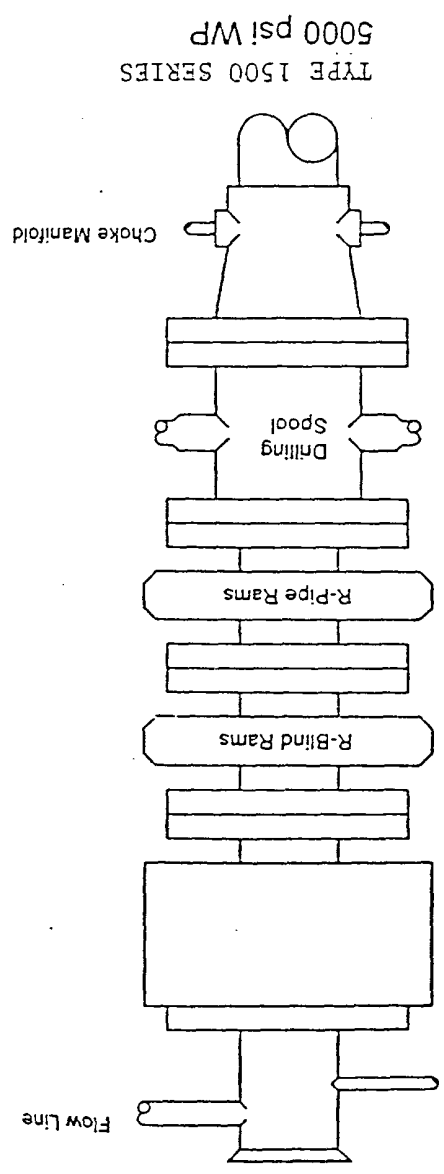
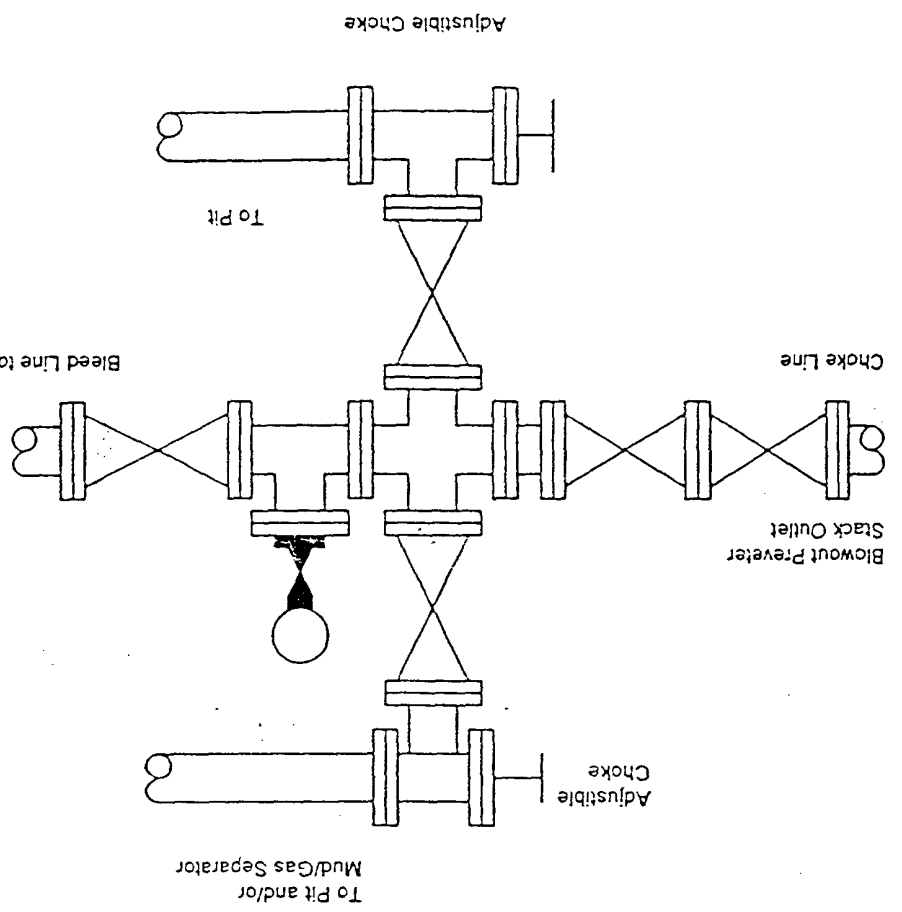
December 31, 2003

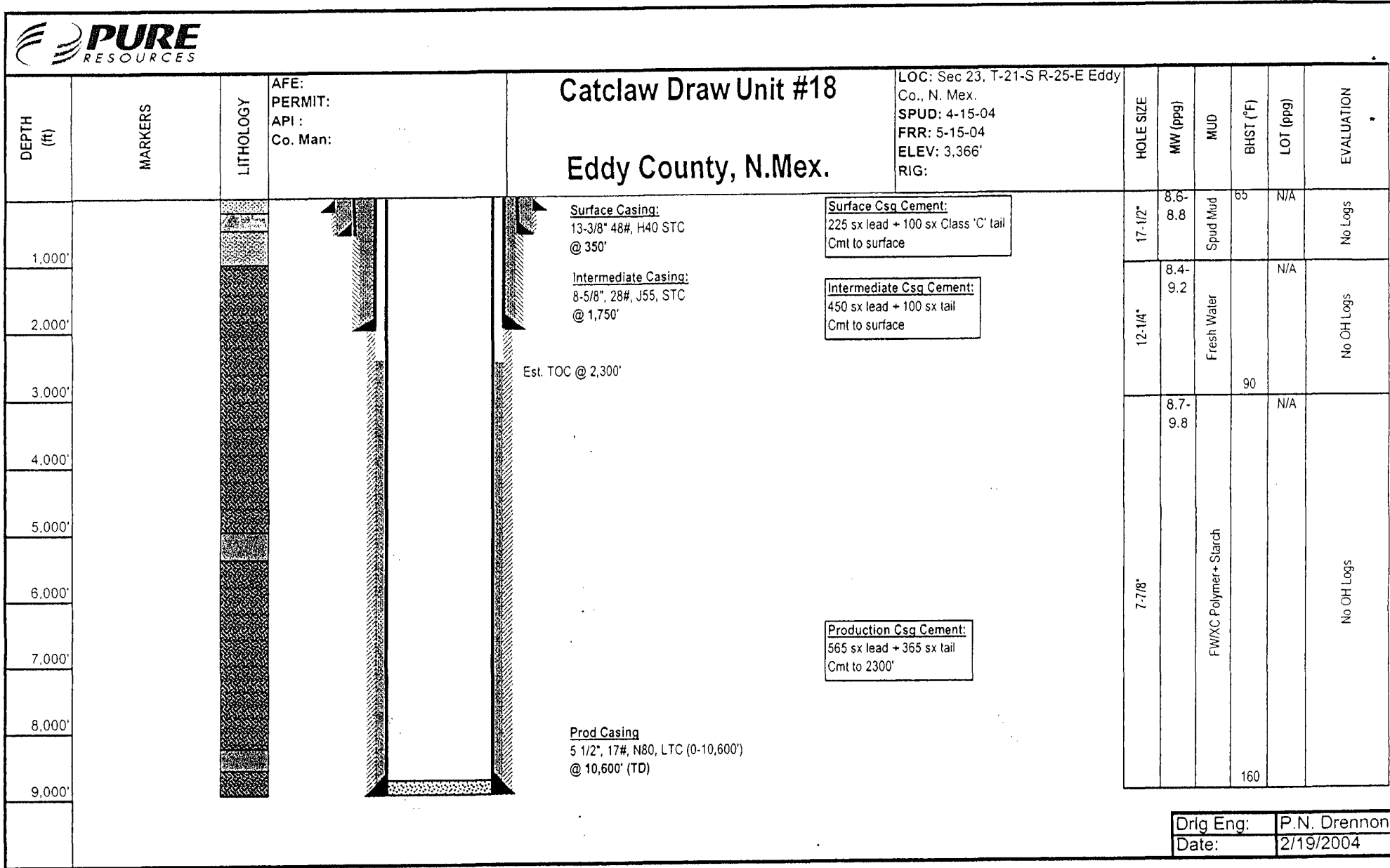
Date Surveyed
Signature & Seal of
Professional Surveyor

Gary E. Eason 12/104
03-11-1422

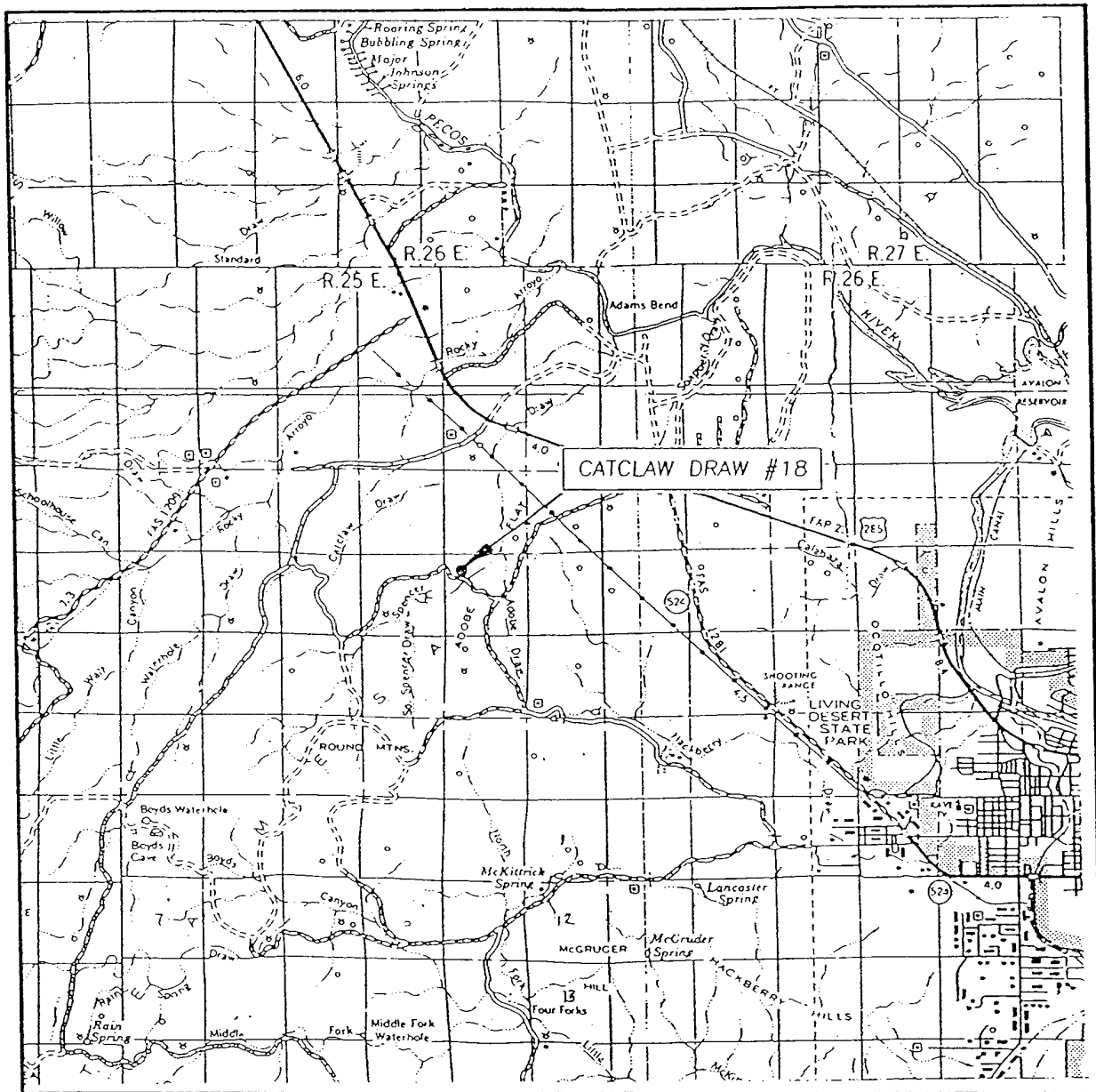
Certificate No. GARY EASON 12641

Choke Manifold Assembly for 5M WP System





VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 23 TWP. 21-S RGE. 25-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1310' FNL & 1310' FWL

ELEVATION 3366'

OPERATOR HEC Petroleum, Inc. (Formerly
LEASE CATCLAW DRAW Hallwood)

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HWY #285 AND COUNTY ROAD #407 (APPROX. 7.0 MILES NORTH OF CARLSBAD) GO WEST 3.0 MILES ON COUNTY ROAD #407 (DOUGLAS FIR) TO CATTLE GUARD. ROAD FORKS, GO RIGHT 0.1 MILES TO A STAKED ROAD. FOLLOW STAKED ROAD 864' TO THIS LOCATION.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117