

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

ZACHRY

16E

P, Sec. 33, T29N, R10W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7654 API NO. 30-045-24105 Federal ☒ , State ☒ , (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Otero Chacra - 82329		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	2962' - 3084'		6400' - 6602'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 269 Psia @ 3023' (Original) b. 1080 Psia @ 3023'		a. 154 Psia @ 6501' b. 1006 Psia @ 6501'
6. Oil Gravity (°API) or Gas BTU Content	1144		1242
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 4/08/97 Rates: 30 MCFD	Date: Rates:	Date: 4/08/97 Rates: 24 MCFD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: supplied upon completion	Oil: Gas:	Oil: Gas: supplied upon completion

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Kevin L. Midkiff TITLE Operations Enginner DATE 06-23-97TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. (505) 326-9700

All distances must be from the outer boundaries of the Section

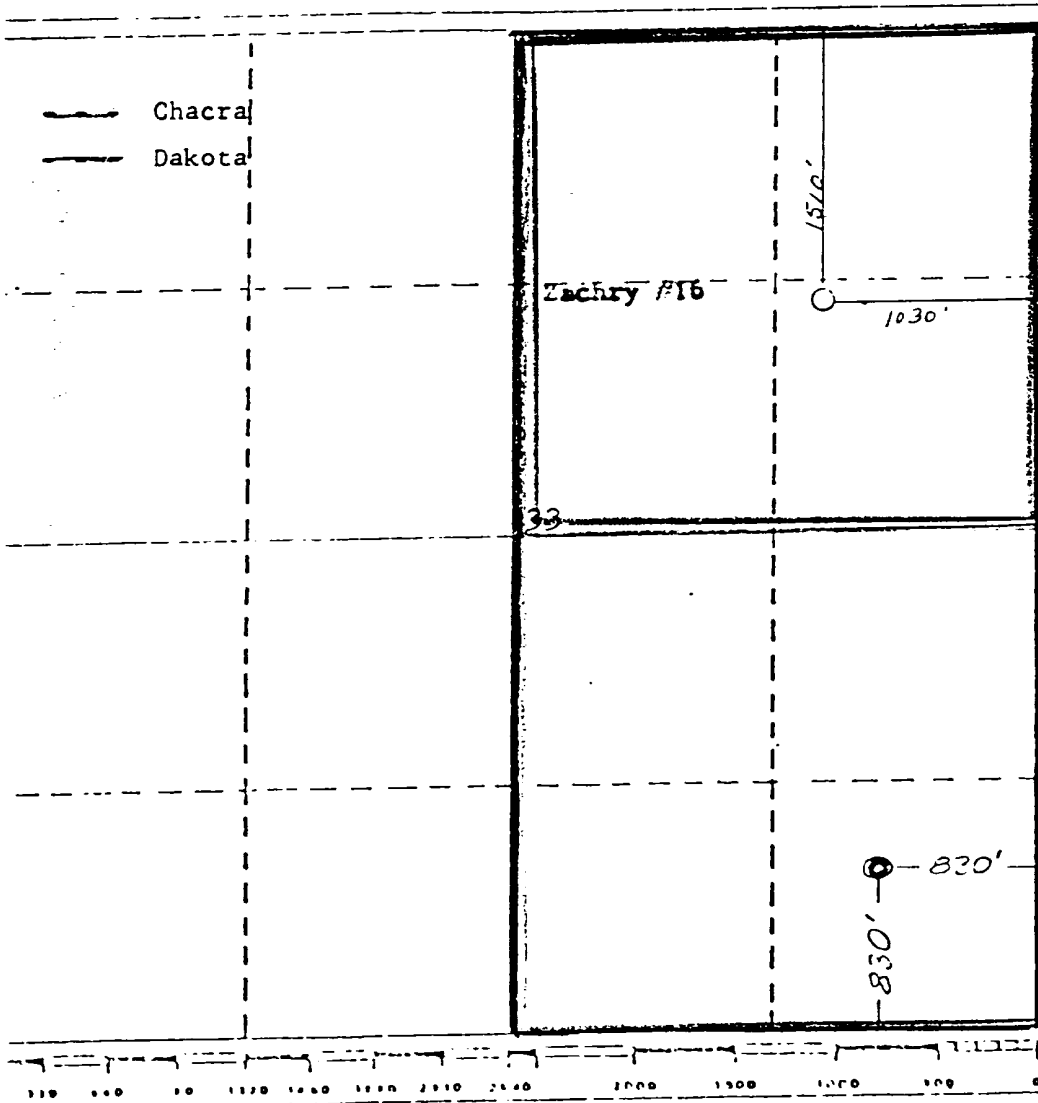
Operator SUPRON ENERGY CORPORATION		Section ZACHRY		Well No. 16-E	
Oil Letter P	Section 33	Township 29 NORTH	Range 10 WEST	County SAN JUAN	
Well Location Location of Well:					
830 feet from the SOUTH line and		830 feet from the EAST line		Dedicated Area NE/4 1	
Producing Formation CHACRA		Pool WILDCAT BASIN		E/2 320	
Ground Level Elev. 5781					

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division



CERTIFICATION

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

Rudy D. Motto
Name
Rudy D. Motto

Position
Area Superintendent

Company
Supron Energy Corporation

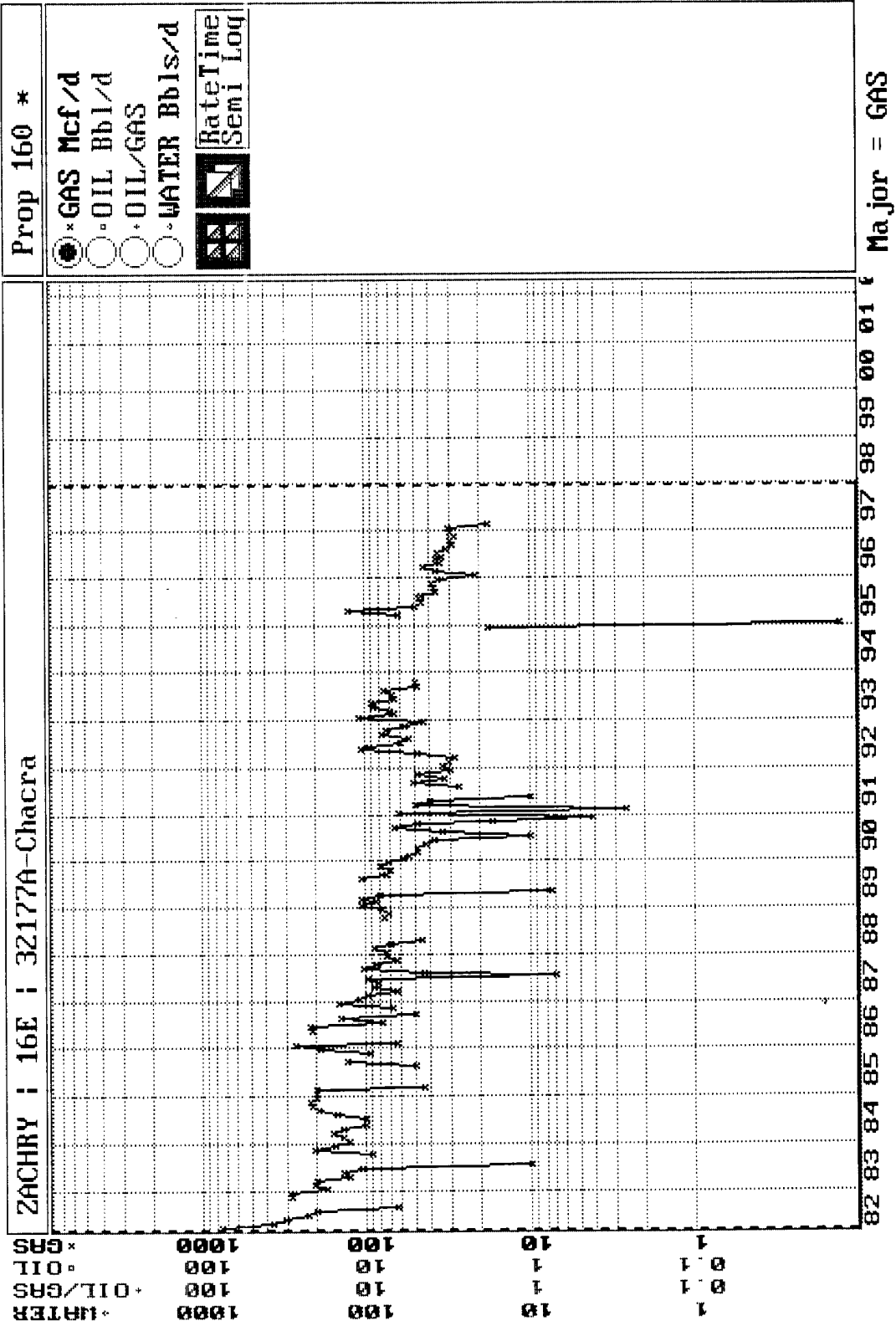
Date
August 20, 1980

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

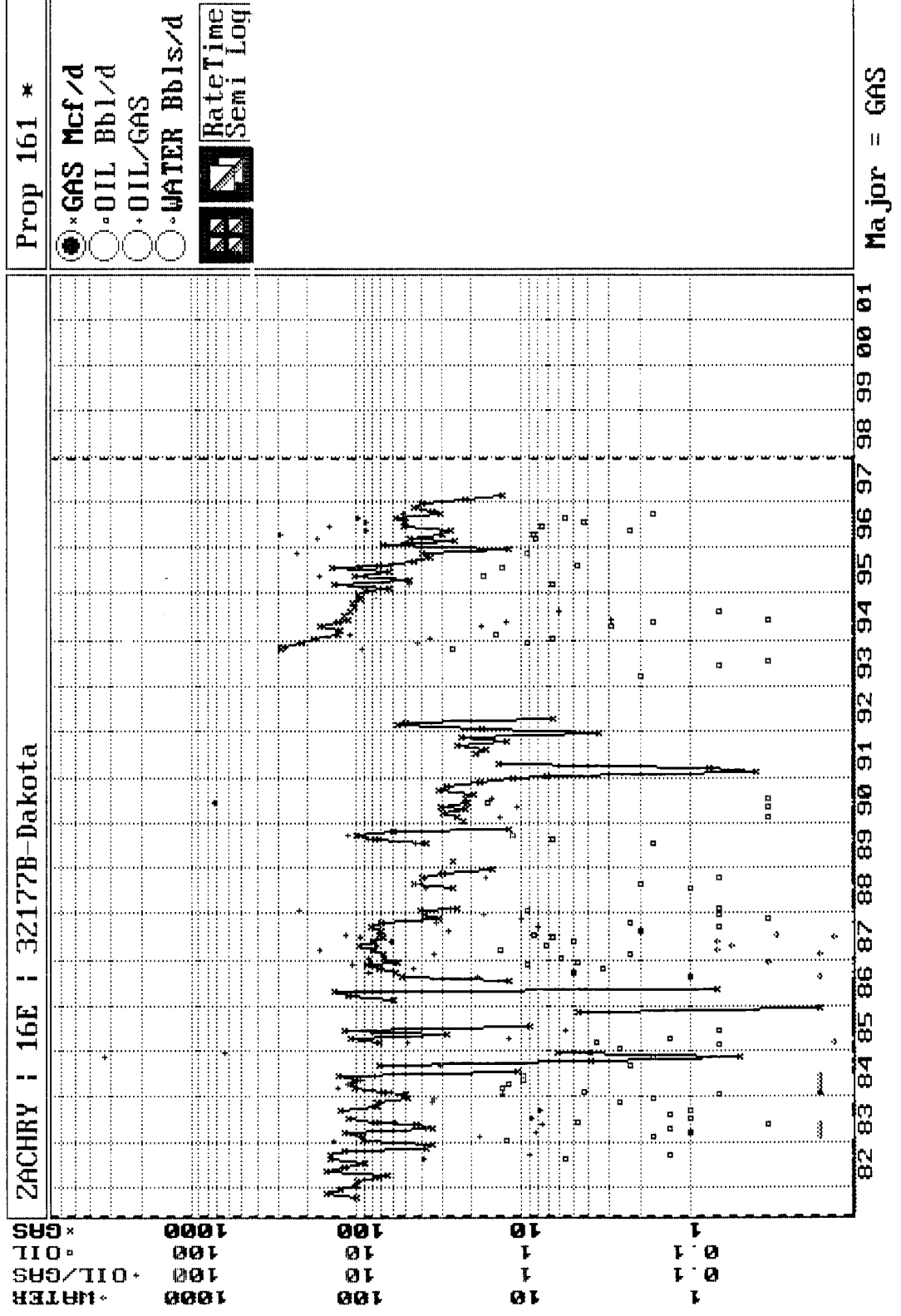
Date Surveyed
February 20, 1980
Registered Professional Engineer
in Oil and Gas Surveying

James P. Leese
James P. Leese

Certificate No.
1463



Major = GAS

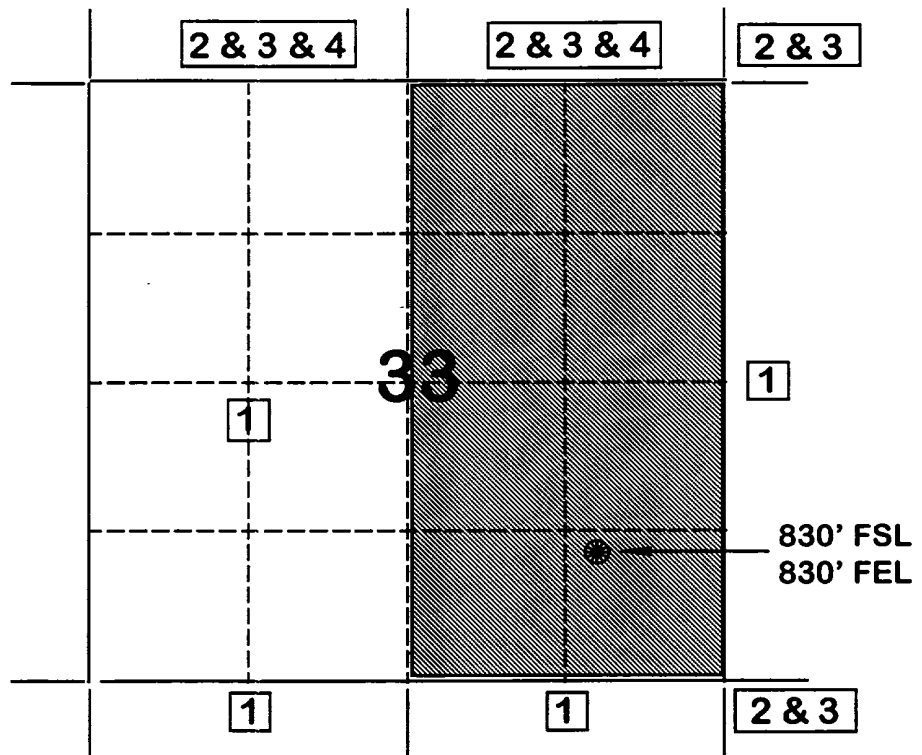


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Zachry #16E
OFFSET OPERATOR \ OWNER PLAT**

Chacra (SE/4)/Dakota (E/2) Formations Commingle Well

Township 29 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company
- 2) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) S G Interest
811 Dallas, Suite 1605
Houston, TX 77002
- 4) Norman L. Gilbreath
P.O. Box 208
Aztec, NM 87410

ZACHRY 16E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Chacra		Dakota	
<u>CH-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.66	GAS GRAVITY	0.749
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.41
%CO2	0.25	%CO2	1.81
%H2S	0	%H2S	0
DIAMETER (IN)	4.5	DIAMETER (IN)	2.375
DEPTH (FT)	3023	DEPTH (FT)	6501
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	101	BOTTOMHOLE TEMPERATURE (DEG F)	147
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	250	SURFACE PRESSURE (PSIA)	130
BOTTOMHOLE PRESSURE (PSIA)	268.8	BOTTOMHOLE PRESSURE (PSIA)	153.5
<u>CH-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.66	GAS GRAVITY	0.749
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.41
%CO2	0.25	%CO2	1.81
%H2S	0	%H2S	0
DIAMETER (IN)	4.5	DIAMETER (IN)	2.375
DEPTH (FT)	3023	DEPTH (FT)	6501
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	101	BOTTOMHOLE TEMPERATURE (DEG F)	149
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	994	SURFACE PRESSURE (PSIA)	831
BOTTOMHOLE PRESSURE (PSIA)	1080.0	BOTTOMHOLE PRESSURE (PSIA)	1005.7

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: ZACHRY | 16E | 32177A-1 CHACRA Property No.: 166
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/6/1075
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
05/27/81	0	994.0
04/17/82	34451	771.0
04/17/83	97802	579.0
04/04/84	136151	520.0
07/13/93	372135	245.0
04/17/97	403112	250.0

F1=Help F3=PrvProp F5=PrvTbl F7=InsRcd F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtProp F6=NxtTbl F8=DelRcd F10=Exit Shift+<- ->=Fast Tbl R & L

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Editing: ZACHRY | 16E | 32177B-1 DAKOTA Property No.: 167
 Table(T): TEST/M,P,H,T,Z,C,A,O,D,1,2,3,B,U,S Rec: 1/8/1075
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
06/03/81	0	831.0
01/17/82	14615	690.0
04/25/82	21819	641.0
04/17/83	57762	586.0
07/03/85	105151	543.0
08/17/88	154485	489.0
07/11/93	184181	268.0
04/17/97	294227	130.0

F1=Help F3=PrvProp F5=PrvTbl F7=InsRcd F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtProp F6=NxtTbl F8=DelRcd F10=Exit Shift+<- ->=Fast Tbl R & L

FDG055M4 S017

WELL PRODUCTION 8/8'S VOLUME

04/10/97 10:25:18

START OF DATA

DP NO: 32177A CHACRA

DATE: 970408 (YYMMDD FORMAT)

ZACHRY

16E SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)

-	04/08/97	24.0	0.00	0.00	30 240 0.00 0.00
-	04/07/97	24.0	0.00	0.00	30 210 0.00 0.00
-	04/06/97	24.0	0.00	0.00	30 180 0.00 0.00
-	04/05/97	24.0	0.00	0.00	30 150 0.00 0.00
-	04/04/97	24.0	0.00	0.00	30 120 0.00 0.00
-	04/03/97	24.0	0.00	0.00	30 90 0.00 0.00
-	04/02/97	24.0	0.00	0.00	30 60 0.00 0.00
-	04/01/97	24.0	0.00	0.00	30 30 0.00 0.00
-	03/31/97	24.0	0.00	0.00	30 954 0.00 0.00
-	03/30/97	24.0	0.00	0.00	30 924 0.00 0.00
-	03/29/97	24.0	0.00	0.00	30 894 0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU
 B MY JOB ENTER=BACKWARDS PF24=HELP
 LU #19

FDG055M4 S017

WELL PRODUCTION 8/8'S VOLUME

04/10/97 10:25:39

START OF DATA

DP NO: 32177B DAKOTA

DATE: 970408 (YYMMDD FORMAT)

ZACHRY

16E SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD BOPM)	(MCFD MCFM)	(BWPD BWPM)

-	04/08/97	24.0	0.00	0.00	24 192 0.00 0.00
-	04/07/97	24.0	0.00	0.00	24 168 0.00 0.00
-	04/06/97	24.0	0.00	0.00	24 144 0.00 0.00
-	04/05/97	24.0	0.00	0.00	24 120 0.00 0.00
-	04/04/97	24.0	0.00	0.00	24 96 0.00 0.00
-	04/03/97	24.0	0.00	0.00	24 72 0.00 0.00
-	04/02/97	24.0	0.00	0.00	24 48 0.00 0.00
-	04/01/97	24.0	0.00	0.00	24 24 0.00 0.00
-	03/31/97	24.0	0.00	0.00	24 736 0.00 0.00
-	03/30/97	24.0	0.00	0.00	24 712 0.00 0.00
-	03/29/97	24.0	0.00	0.00	24 688 0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU PF6=NRI PF10=BROWSE MENU PF11=INQ/UPDATE MENU
 B MY JOB ENTER=BACKWARDS PF24=HELP
 LU #19

