MAY-07-03 09:50 From:8152219		WJ	15053939758	T-135 P.01 Job-118
NA'		ESOU	GY, MINEI RCES DEPA ⊳∔↓	RALS and ARTMENT
BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary	<u>NUSI2020</u>			Lori Wrotenbery Director Oil Conservation Division
MEMO DATE: 5/7/03 TO: William FROM: Donna	3 Jones Mull	70;	Kathy)
For Your Files		Pre	pare a Reply for My Sig	gnature
For Your Review and	Return	For	Your Information	
For Your Handling		For	Your Approval	
As Per Your Request		For	Your Signature	
Please Advise		For	Your Attention	

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15053939758

District I	State of New Mexico	Form C-107A
2629 N. Prants Dates, Maller, No. 47349	Energy, Minerals and Natural Resources Department	Revised May 15, 2000
District II		
1393 W. Gangi Avenue, Johnie, Phil (1215)	Oil Conservation Division	APPLICATION TYPE
District III	1220 South St. Francis Dr.	X Single Well
2000 Bin Grans Bart, Arios, 104 21415	Santa Fc, New Mexico 87505	Establish Pre-Approved Pools
Diatrict IV	•	EXISTING WELLBORE
1339 5. th Practs Dr. Sette Fe. Min 67303	APPLICATION FOR DOWNHOLE COMMINGLING	_X Yes _No

E.G.L. Resources Inc.		P. O. Box 10886	Midland, T	X 79702	
^{Opendor} Sun Bright Federal	1	Address Unit C, Sec. 21, T195,	R33E	Lea	
LANCE	Wall No.	Unit Letter-Section-Township-Range	1	County	1

OGRID No. 173413 Property Code 29661 API No. 30-025-29140 Lease Type: X Federal State _Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Poot Name J	Tonto (Bone Springe)		North Gen (Wolfcamp)
Pool Cade	50475 5776	·····	28210
Top and Bottom of Pay Section (Performed or Open-Hole Interval)	10602-10623		11089-11108
Method of Production (Flowing or Antificial Lift)	Flowing		Plowing
Bottomholic Pressure Orac Pressure are with not be required if the bettom performance are with not be required if the bettom performance are an and a second and a second are and depth of the top performing in the support zone)	2241 psia based on pressure data dated 7/5/2000		2290 pisa based on pressure data and cumulative production
Oil Gravity or Gas BTU (Degree AH or Gas BTU)	39.6		41,8
Producing, Shut-In or New Zone	Producing		
Date and Oll/Gas/Water Rates of Last Production. Must by new soon with an production litery. optimat duly to repired to start production estimate and upporting data)	Date: 7/6/2000 Rates: 7 011, 2-5 modd 0 wates:	Date; Ratea:	Date: 6/20/2000 Retes: 25 cd.1, 40 mcfd 0 water
Pixed Allocation Percentage pixer: Releasing is based upon separate and the correst or past production, supporting day or capitantics will be separate)	Oil Gas 22 % 37 %	Oil Gas % %	Oil Gas 78 % (B2 %

ADDITIONAL DATA

Are all working, royalty and overviding royalty interests identical in all commingled sones? If not, have all working, royalty and overviding royalty interest owners been notified by certified mail?

Are all produced fluids from all commingled zones compatible with each other?

Will commingling decrease the value of production?

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

NMOCD Reference Case No. applicable to this well; _

A	.ttact	Inte	CRL:	Ľ

accuments: C-102 for cach zone to be commingled showing its spacing unit and acreage dedication. Production ourve for each zone for at least one year. (If not available, staten explanation.) For zones with no production bistery, estimated production rates and supporting data. Date to support allocation method or formula. Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

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

SIGNATURE TORian Anster	_TITLE	Agent	DATE	5/2/02	
TYPE OR PRINT NAME Landa Johnston			PHONE NO. (915) 69	4-8228	

x No Yas X No P. No. Yee (č. 2 _ No 7 200 38.27 - FD Hopps 0cd Leozous L

WAY-07-03	09:50	From: 8152	218
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15053939758

T-135 P.03/11 Job-119

District I 1625 N. French Dr., Hobba, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Astec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 15, 2000 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL.	LOCATION	AND ACREAGE	DEDICATION	PLAT

	API Number 0-025-29140	-		² Pool Code \$9475		' Poel Name Tonto (Bone Springs)				
Property (Code				S Property ?	Name		· · · ·	al Number	
29661					Sun Bright F	oderal			1	
OGRID I	No.				* Operator 1	Name			Elevation	
173413					E.G.L. Resour	ces, Inc.			3,627.9'	
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Ida	Fort from the	North/South line	Feet from the	East/West line	County	
с	21	19S	33E		920	North	1,980	West	Ĭ.ea	
	<u>-</u>	L	^{II} Bo	ttom Hol	e Location I	f Different From	m Surface			
UL or lot av.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
12 Dedicated Acres	5 Dialat o	r Infill " C	onsolidation	Code 15 Or	der No.					
40	N									

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

16			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true
	-926		and complete to the best of my knowledge and belief.
	NM:53997		John A. Langhoff
			Printed Name Petroleum Engineer
			April 8, 2003
			¹⁸ SURVEYOR CERTIFICATION I haveby cavity that the well location shown on this plat was platted from field notes of tendal surveys in many by me or under
			my supervision addition the same is true and correct to the
			Date of Survey
			Signature and Stal of Destination Summary
			1-1-10250-1-102
			Certificate Number

15053939758

District J PO Bas 1988, Elebbs, NM 82343-1986 District El PO Drawer DD, Artania, NM 882(1-0719 District Ell 1000 Rio Brame Rd., Alloc, NM 87418 District FV PO Bas 2089, Banta Fe, NM 87564-2088

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State of New Mexico Eacry, Macrule & Natural Reserves Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 10, 1994 Instructions on back Submit to Appropriate District Office State Leann - 4 Capies Fee Lease - 3 Copies

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AMENDED REPORT

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30-025			2	7210			North Gem	Wo1	fcamp			
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025542			Yates	-Bnor	gy-Corpo	rsti	on E.G.L. RE	sou	CES IN	2.	36	Elevation
					¹⁸ Sur	face	Location					
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SUN BRIGHT FEDERAL NO. 1 920' FNL & 1980' FWL SEC. 21, TWP. 19-S, RGE. 33-E LEA COUNTY, NEW MEXICO

ATTACHMENT TO APPLICATION FOR DOWNHOLE COMMINGLING

Application is being made to downhole commingle production from the North Gem (Wolfcamp) field and the Tonto (Bone Springs) field within the Sun Bright Federal No. 1 wellbore. Neither completion has produced for an extended period of time. The following explanation and attachments are submitted as justification for the downhole commingling of production.

North Gem (Wolfcamp) Field

The Sun Bright Federal No. 1 was drilled in 1985 and drill stem tested the Wolfcamp formation from 11,069' to 11,113' during the drilling operation. The initial one-hour shut-in pressure was 5,616 psia following a 30-minute pre-flow and the final two-hour shut-in pressure was 5,195 psia following a 60-minute final flow period. The DST pressure information indicated that the Wolfcamp formation was a limited reservoir.

The well was subsequently drilled to the Morrow formation and has produced from the Morrow and Atoka formations (see attached well data sheet). In March 2000, Yates Energy re-completed the well from the Atoka formation to the Wolfcamp formation with perforations from 11,089' to 11,108'. The well was placed on production on April 1, 2000 with initial rate of 139 BOPD/ 5 BWPD/ 185 MCFD on 11/64 th's choke with 380 psig FTP (see attached production data).

By April 12, 2000 production had declined to 35 BOPD/ 0 BWPD/ 87 MCFPD on 11/64 th's choke with 50 – 140 psig FTP. The well was shut-in for a 72-hour bottom hole pressure survey from April 12 through April 15, 2000. The pressure buildup data exhibits the characteristics of a limited reservoir. A maximum recorded pressure of 3,334 psia was obtained during the test. The pressure data was extrapolated to a Horner Time of 1 hour (infinite shut-in time) to obtain a P* value of 4,195 psia (see attached pressure, buildup data). Cumulative production at the time of the buildup data was 853 BO and 1,421 MCFG. The well remained shut-in until April 26, 2000 with the tubing pressure building to 1,050 psig.

The well was returned to production and produced until May 26, 2000 when the rate had once again declined to zero. The well was shut-in to allow the pressure to buildup so that production could be resumed. The shut-in tubing pressure rose to 180 psig and

The well produced until June 21, 2000 when wellwork was initiated to re-complete the well to the Bone Springs formation. At the time of the re-completion, the well was exhibiting signs of loading up and subsequent cessation of production.

SUN BRIGHT FEDERAL NO. 1 920' FNL & 1980' FWL SEC. 21, TWP. 19-S, RGE. 33-E LEA COUNTY, NEW MEXICO

ATTACHMENT TO APPLICATION FOR DOWNHOLE COMMINGLING Page 2

Final production rate was 25 BOPD/ 0 BWPD/ 40 MCFPD on 10/64 th's choke with 80 psig FTP. Cumulative production for the Wolfcamp formation was 2,477 BO and 4,410 MCFG.

The Wolfcamp formation pressure was estimated using the DST data, the buildup data from April 2000, and the cumulative production. The data indicates that the Wolfcamp formation has a current bottom hole pressure of 2,290 psia (see attached formation pressure estimate). This bottom hole pressure is similar to the bottom hole pressure observed in the Bone Springs formation (described below).

Tonto (Bone Springs) Field

Yates Energy initiated the Bone Springs formation re-completion in June 2000. The Wolfcamp formation was isolated and the Bone Springs formation was perforated from 10,602' to 10,614'. The new perforations were acidized and swabbed tested. The well was shut-in from June 26, 2000 to July 5, 2000 with a 211 hour SITP of 525 psig. A static bottom hole pressure survey on July 5, 2000 indicated a bottom hole pressure of 2,241 psia for the Bone Springs formation. The well was placed on production with an initial rate of 7 BOPD/ 0 BWPD/ 25 MCFPD on 24/64 th's choke with 60 psig FTP. The well produced for two days and production ceased due to the well being unable to produce against the line pressure. After seven days the shut-in tubing pressure had stabilized at 50 psig. Sustained flowing production was not established from the Bone Springs formation.

Recent Wellwork

E.G.L. Resources, Inc. replaced Yates Energy as the operator in March 2002. A workover was initiated to add perforations and stimulate the Bone Springs formation to establish commercial production. Perforations were added from 10,618' to 10,623' below existing perforations from 10,602' to 10,614'. The zone from 10,602' to 10,623' was then acidized and swab tested. Swab testing indicated that the Bone Springs reservoir would not continuously produce as a flowing completion. The isolation equipment between the Bone Springs reservoir and the Wolfcamp reservoir was removed in order to maximize recovery of reserves from both reservoirs. The well was blaced on production using artificial lift equipment.

Commingling Justification

The pressure data and production data indicate that both the Bone Springs reservoir and the Wolfcamp reservoir in the Sun Bright Federal No. 1 are limited reservoirs. Combining the two completion intervals will allow the well to produce commercial

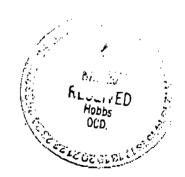
SUN BRIGHT FEDERAL NO. 1 920' FNL & 1980' FWL SEC. 21, TWP. 19-S, RGE. 33-E LEA COUNTY, NEW MEXICO

ATTACHMENT TO APPLICATION FOR DOWNHOLE COMMINGLING Page 3

quantities of oil and gas for an extended period of time and maximize recovery from both reservoirs. Additionally, similar bottom hole pressures in the Bone Springs reservoir (2,241 psia) and the Wolfcamp reservoir (est. 2,290 psia) indicates crossflow between the reservoirs will not occur as the well is being produced.

In order to prevent waste and maximize oil and gas recovery, E.G.L. Resources, Inc. proposes to commingle production from the Tonto (Bone Springs) and the North Gem (Wolfcamp) fields within the Sun Bright Federal No. 1 well.

Attachments: Well Data Sheet Wolfcamp Production plot Wolfcamp Pressure Buildup plot Wolfcamp Formation Pressure Estimate plot



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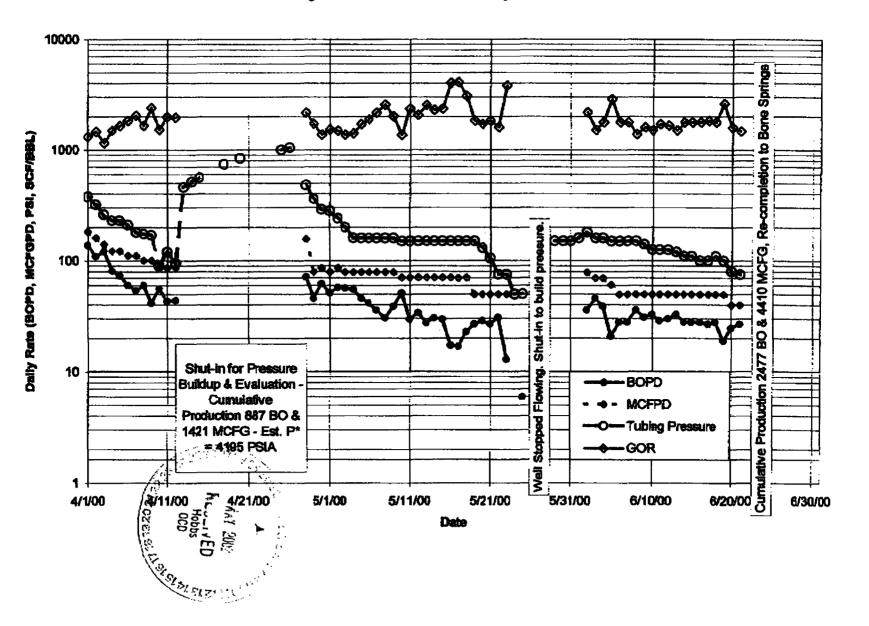
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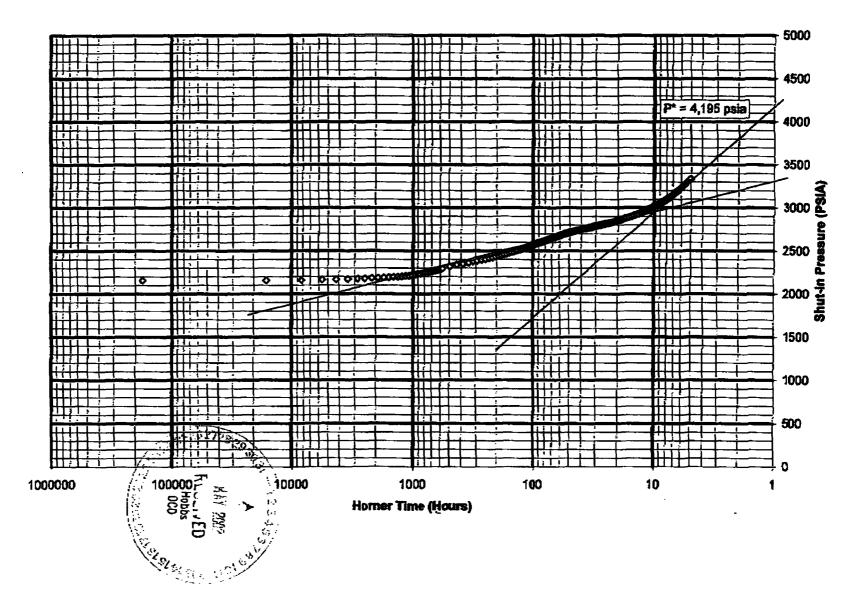
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WELL DATA SHEET

LOC: 820' FNL & 1980' FWL SEC: ST TWF: 198 RGE: 33E COUNTY: LEA STATE: NM GL: 342' STATE: NM GL: 342' GL: 342	FIELD: N. Gem	WELL NAME: Sun	Bright Federal No. 1	FORMATION: Wolfcamp/
13-JUP, 64.88 @ 437 13-JUP, 64.88 @ 437 428 sxs. 17-J2* hole. 9-47*, 528 @ 5,205* w/ 5,005 sxs. 12-J4* 9-47*, 528 @ 5,205* w/ 5,005 sxs. 12-J4* 13-J2*, 64.88 @ 437* 14.85 sxs. 17-J2* 14.85 sxs. 17-J2* 15-J2*, 528 @ 5,205* w/ 5,005 sxs. 12-J4* 16.65 str 17-02 @ 5,205* w/ 5,005 sxs. 12-J4* 17-02 @ 5,205* w/ 5,005 sxs. 12-J4* 17-02 @ 5,205* w/ 5,005 sxs. 12-J4* 17-02 @ 5,205* 17-02 @ 10,205* <td></td> <td></td> <td></td> <td>CURRENT STATUS: Producing</td>				CURRENT STATUS: Producing
TOC @ 8,728' by T6. 2-76", 6.56/ft, P-106 LJ 3555 tbg 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76", 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550' 2-76', 1.550'	425 sxs. 17-1/2" hole.		initial Productio Initial Formation Completion Dat MMCFGPD. Wellborn Histor 03/07/89 Set CIBP pir @ 13015', IFF 2 Completed natural. (01/23/83 Set CIBP IPF 58 B0PD/1050	n: Flow 125 BCPD/1938 MCFPD 1: Morrow From: 13492' To; 13546' 2: Completed natural. CAOF test rate of 0.8 4: Completed natural. CAOF test rate of 0.8 4: CAOF test rate of 0.8 4: CAOF test rate of 0.8 4: CAOF 2.3 MMCFPD on 12/64" ck w/ 17000 FTP. CAOF 2.3 MMCFPD. Morrow cum 82 MBO & 3.1 BCF. @ 13,000'. Perf Atoka 12504' to 89'. Set pkr @ 12,472'. MCFPD.
DV Tool @ 8,864* TAC @ 10,538* TAC @ 10,538* Display Tool @ 8,864* TAC @ 10,538* Bone Springs Parts 10,602* - 14* Display Tool @ 8,864* 2000, 15* - 13008. Flow back & dead in 3*. 89k of win to 10,450 W rei at an 3*. 89k of an to 125 spring 20008. 5*- 3000, 15* - 13008. Flow back & dead in 3*. 89k of win to 10,450 W rei at an 3*. 89k of win to 10,450 W rei at an 3*. 89k of an to 125 spring 20008. 5*- 3000, 15* - 13008. Flow back & dead in 3*. 89k of win to 10,450 W rei at an 3*. 89k of the 32 store 10,602* - 14* Display Tool @ 12,455* W/ 35* cmit Otles Perme-Latch Pitr @ 12,504* Otles Perme-Latch Pitr @ 12,504* Display Tool @ 13,000* W/ 25* cmit Otles Perme-Latch Pitr @ 12,504* Display Tool @ 13,000* W/ 25* cmit Otles Perme-Latch Pitr @ 13,000* W/ 25* cmit Otles Perme-Latch Pitr @ 13,000* W/ 25* cmit Display Tool @ 13,000* W/ 25* cmit Otles Perme-Latch Pitr @ 13,000* W/ 25* cmit Display Tool @ 13,000* W/ 25* cmit			N2. Flush w/ Conde MBO & 431 MMCF. <u>09/21/02</u> Load the 4 POCH w/ tog. Ran g ttog. Spot 350 gal 15 11,432' to 10,800', F ceg to 850 peig. Hek peig to 4000 peig. Fl Full plug. Flow & swa MBD & 4 MMCF by 6 MBD & 4 MMCF by 6	neate & N2. RTP @ 41 BOPD/735 MCFPD. Atoka cum 8 a cag. Tat osg to 775 pag. Held. Pkr would not rise. auge ring to pkr. 8et CIBP @ 12,466* & cap w/ cmr. Picide % NEPE DIHO acid across Woncemp. Ran CIR-CCL # enf11,055* - 108* w/ 3 spf. Run pkr & set @ 11,014'. Tat d. Pump acid away w/ 8 bbja 2% KCI pressuring from 1000 cw wall back. Set pig in profile nipple. Circ in pkr fluid. ab well in. PWOP. BHP = 3334# on 4-12-00. Cum 2.5 k21/20.
CIBP @ 12,455' w/ 35' cmt Atoka Perfs Othe Perme-Latch Pkr @ 12,504' Atoka Perfs CIBP @ 13,000' w/ 25' cmt Atoka Perfs Dis Perme-Latch Pkr @ 12,504' Atoka Perfs CIBP @ 13,000' w/ 25' cmt Morrow Perfs Dis Atoka Perfs 13,130' - 50' 13,130' - 50' 13,130' - 50' 13,145' - 91' 13,240' - 44' 13,220' - 44' 13,220' - 44' 13,435' Morrow Perfs 13,492' - 518' 13,632' - 48' Base dig 13,750' w/ 1,600 sxs in 2 sins. PBD @ 13779' Z stas. Circ 120 sxs off DV tool. TD @ 13760' File: 38_1_WBS.XLs TD @ 13760'	DV Tool @ 8,984'		11,000'. \$poig. Part Bane Springs Part Bane Springs 2000#, 15" - 1300#. e Springs Parts formation increasing 2000#, 15" - 1300#. e Springs Parts increasing to 100%, 1 j,602' - 14' 525#. Run static BHI j,602' - 108' PODH w/ pkr. Retriev	al. 15% NEFE HCI I/ across Bone Springs. Tet cag to 500 to 10,602'- 14' wi 3 spr. RiH w/ Baker Lokest pirr on to 10,543'. Rvse in acid & set pirr. Displace acid into pressure to 2900#. Pump into 0.26 bpm @ 2900#. 5" - Flow back & dead in 3". Swo dwn to 10,540' wr oil cut Rec. 98 BO & 53.1 &W. SWI for 9 day w/ TP resching P showing 2231# @ 10,577'. Opn well & flowed 7.5 BO & 1. Leave shul-in. POOH. Run GR-CCL log. Perf 10,618' - 23', Run pirr. 28' wr 3000 gei 15% NEFE HCI. Swapriow test well. ve pirr & equalizing valve from 11,000'. Run tbg, pump,
CIBP @ 13,000' w/ 25' cmt CIBP @ 13,000' w/ 25' cmt CIBP @ 13,436' CIBP @ 13,436' S-1/2", 17# & 20#, N-80 set @ 13,760' w/ 1,600 sxs in 2 stgs. Circ 120 sxs off DV tool. 7-7/8" hole. TOC @ 6,728'. FILE: 38_1_WBS.XLS CIBP @ 13,000' w/ 25' cmt Morrow Perfs 13,130' - 50' 13,185' - 91' 13,185' - 91' 13,240' - 44' 13,280' - 308' Morrow Perfs 13,130' - 50' 13,185' - 91' 13,240' - 44' 13,280' - 308' Morrow Perfs 13,492' - 518' 13,632' - 46' FILE: 38_1_WBS.XLS Solution 1000 state in 13780' FILE: 38_1_WBS.XLS			Additional Data: Dig Edge 9317-28, i 284' - 89' USW, 80 R/ 6.9 cg	9614'-28', 9634'-58', 10604'-25', & 11093'-100'. 2000' WB, 30'' PF, 19-09 60'', RO 47 BO, gvhy 41.8, 28 600 ac all, 400 cc wr, 147,000 Cl PFFP 1057-1605 60''
CIBP @ 13,436' 5-1/2", 17# & 20#, N-80 set @ 13,750' W/ 1,600 sxs in 2 stgs. Circ 120 sxs off DV tool. 7-7/8" hole. TOC @ 6,728'. TD @ 13760' FILE: 38_1_WBS.XLS			Se16, FFP 1739-278 Anrow Perfs Dis Brk 12592-802 130' - 50' DST 12588-806 35 185' - 91' 60'' 7151#, FFP 220 36'' ,240' - 44' Formation Tops 306'' ,283' - 308' Rustler @ 1360' 156''	17#, 120" 5195#. HP 6389-6399. 00' WB, Op 90", GTS 39" ARO 521 MCP incr. to 1921 00' WB, SC R/ 400 episona, gvty 49, 8.8 cfg @ 1800#, 4-3540, 120" 7204#, HP 7574-7574.
	5-1/2", 17# & 20#, N-80 set @ 13,750' w/ 1,600 sxs in 2 stgs. Circ 120 sxs off DV tool. 7-7/8" hole. TOC @ 6,728'. FILE: 38_1_WBS.XLS	PBD @ 13718'	Morrow Perfs Yates @ 3244' ,492' - 518' Delaware Mrn Grp @ ,532' - 48' MMkr @ 8837' 1-st ES sond @ 8063 Participant (Content of the second	6320' Ataka @ 1207% L. ED 6320' Ataka @ 12490' HULDS P Ataka "C" Lm 12762UDDS Morrow @ 12966' OCD 3' M/ Morrow @ 13126'



Sun Bright Federal No. 1 - Wolfcamp Pressure Buildup April 12 - 15, 2000



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