

















Pool	T, ∘F	Φ,%	k, md	s _o , %	h, ft	° API	P/ MMP	R
Pt. McIntyre	180	22	200	60	156	27	1.27	
Meltwater	140	20	10	60	95	36	1.5	:
Lisburne	183	10	1.5	70	125	27	1.03	:
Tam	142	20	9	60	40	37	1.64	
Prudhoe	200	22	265	70	222	28	0.94	
Alpine	160	19	15	80	48	40	1.81	
Kupurak -Milne	160	20	150	90	100	24	0.79	
Kupurak River	165	23	40	70	35	22	0.76	
Sag River	234	18	4	60	30	37	1.86	9
North Prudhoe	206	20	590	60	20	35	2.07	10
West Sak	75	30	1007	70	70	19	0.41	1
Schrader Bluff	80	28	505	70	70	17.5	0.4	1:
Hemlock	180	10.5	53	70	290	33.1	2.34	1:
lvishak	254	15	200	50	125	44	4.11	14



















% PV	% Recovery	CO ₂ Injected, million standard cubic ft	CO ₂ Produced, million standard cubic ft	CO ₂ Storage Ratio
10	11.40	1.598	0.075	0.95
20	14.93	3.196	1.009	0.68
30	16.82	4.841	2.327	0.52
50	20.62	8.040	4.981	0.38
For 509 Mscf/S Oil proo	% pore volume TB of oil produ	e of CO ₂ injection v uced prresponding CO ₂ s	was found to be 9. storage for 0.5 PV	709 was



Storec	ression unit and other facilities $d CO_2$ will be 75 times the 40 a pr 50% BV scenario	acre flood pattern = 1.37 million	tons
	Parameter	Assumed Value for NPV	
	Oil Price (US \$/bbl)	50	
	Project Life (years)	25	
	Royalty	12.50%	
	Corporate Tax	35%	
	Discount Rate	12%	
	Rent	\$12/acre	
	Storage Ratio	38 %	
	CO ₂ Credits (US \$/ton CO ₂)	10	
	Capture Cost (US \$/ton CO ₂)	3	
	Compression Cost (US \$/tonCO ₂)	7.5	
	Transportation Cost (US \$/ton CO ₂)	8	
		3	



Parameters for Sensitivity Analysis				
Variable	Distribution	Parameter Values		
Discount Rate	lognormal	Mean = 12%; standard deviation =4%		
Oil Price	lognormal	Mean = 50; standard deviation =10		
CO ₂ Credits	lognormal	Mean = 10;standard deviation =5		
Storage Cost	triangular	1.5; 3; 4.5		
Capture Cost	triangular	1.5; 3; 4.5		
Compression Cost	triangular	6; 7.5; 9		
Storage Ratio	normal	Mean = 37%; standard deviation = 10%		
Transportation Cost	triangular	6; 8; 10		











